

Open Air Culinary Systems

GAS SUPPLY CONVERSION AND ORIFICE REPLACEMENT GUIDE

Gas Supply Conversion and Orifice Replacement Guide

PURPOSE:

If a barbeque or side burner unit is to be operated with a different gas supply other than the one provided by the factory, a conversion kit is required. This change must be done in order to ensure that:

- The unit is safe to operate.
- The unit has correct combustion of gas.
- The unit outputs the expected heat (BTUH's).
- Your warranty is maintained.

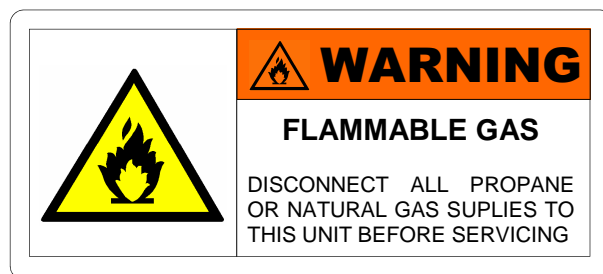
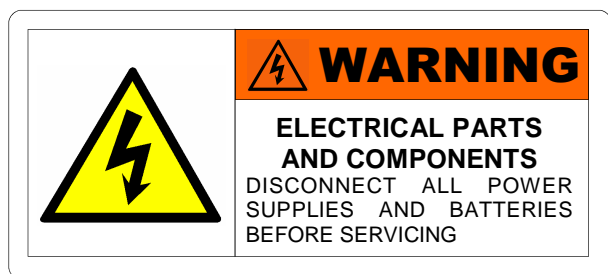
By changing from Natural Gas (NG) to Liquid Propane (LP) or vice versa, the heat output as well as the regulating pressure and oxygen content of the gas/air mixture also changes. Therefore a change in orifice (gas injector) size is required, (usually larger or smaller depending on the application), as well as a change in the main pressure regulator setting to allow for proper gas pressure to the valves and burners.

On the next pages you will find the necessary information to replace orifices, adjust burners and convert pressure regulators to suit your application. This information is generalized due to the different models manufactured, nevertheless it applies to all of them in the same fashion as it indicates the location and how to access orifices and regulators.

For additional information, all conversion kit numbers and components are listed at the end of this guide in the appendix section.

WARNING:

As the unit will be partially disassembled during gas supply conversion and orifice replacement, it is necessary to remove all power sources to the unit (including but not limited to: barbeques lights, rotisserie motor and igniter module batteries) as well as all gas supplies (Natural gas or Liquid propane).



Alfresco Gourmet Grills recommends a qualified gas technician to perform this service.

HOW TO OBTAIN SERVICE:

For service, please contact our Alfresco Gourmet authorized service agency at:
(866) 203-5607

Please provide the model and serial numbers (located under drip pan), the date of installation and a brief description of the problem.

For all other Alfresco Gourmet products related questions, please contact:

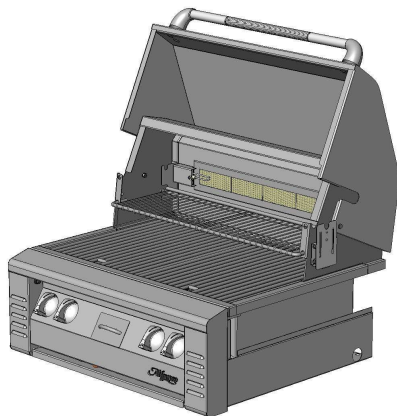
Alfresco Gourmet Grills
7039 East Slauson Avenue
Commerce, CA 90040

(888) 383-8800
(323) 722-7900
(323) 726-4700 (Fax)

BARBEQUES:

A typical barbeque unit will have the following burner components:

MODEL:	BURNER QUANTITIES:				
	SMOKER	"U" BURNER	SEAR-ZONE™	ROTISSERIE	SIDE BURNER
AGBQ-30	1	2	~	1	~
AGBQ-30SZ	1	1	1	1	~
AGBQ-30IR	1	~	2	1	~
AGBQ-42	1	3	~	1	~
AGBQ-42SZ	1	2	1	1	~
AGBQ-56	1	3	~	1	2
AGBQ-56SZ	1	2	1	1	2
AGBQ-56BFG	1	3	1	1	~
AGSB-2	~	~	~	~	2
AGSZ	~	~	1	~	~

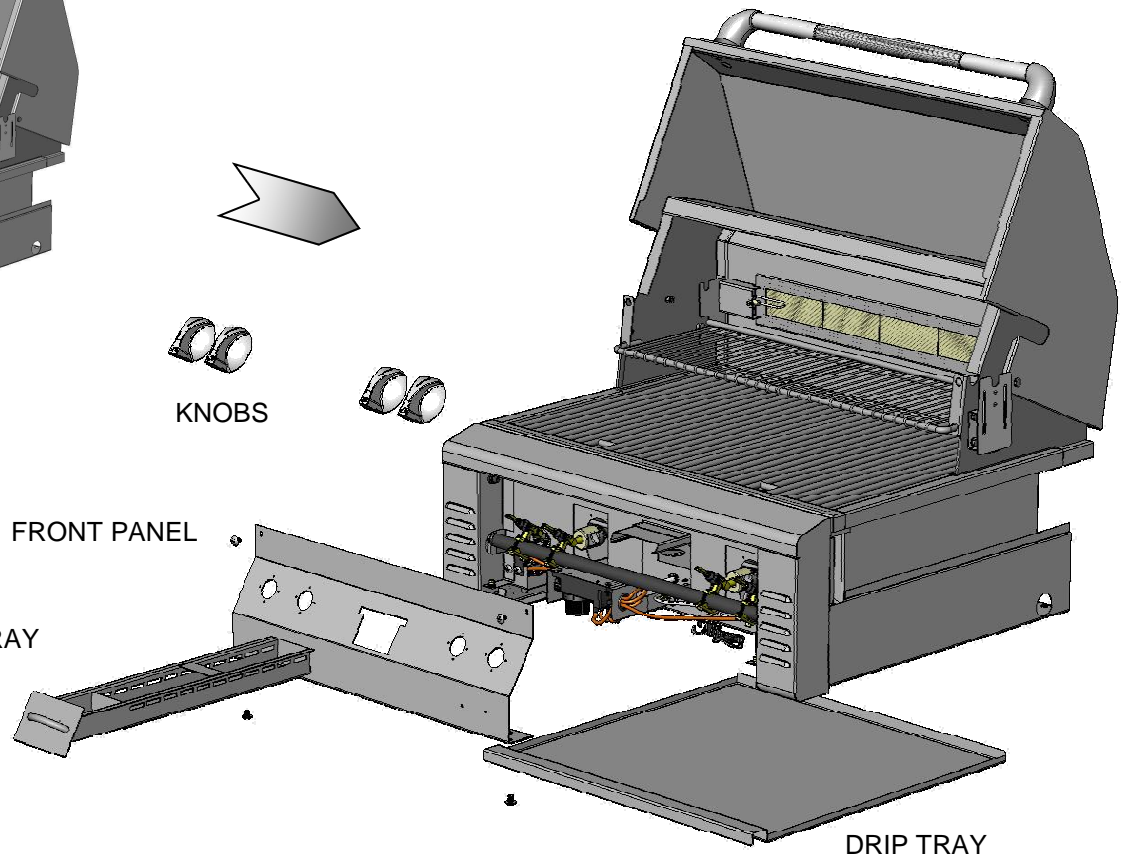


TYPICAL BARBEQUE

Figure 1



KNOBBS



FRONT PANEL

SMOKER TRAY

DRIP TRAY

Figure 2

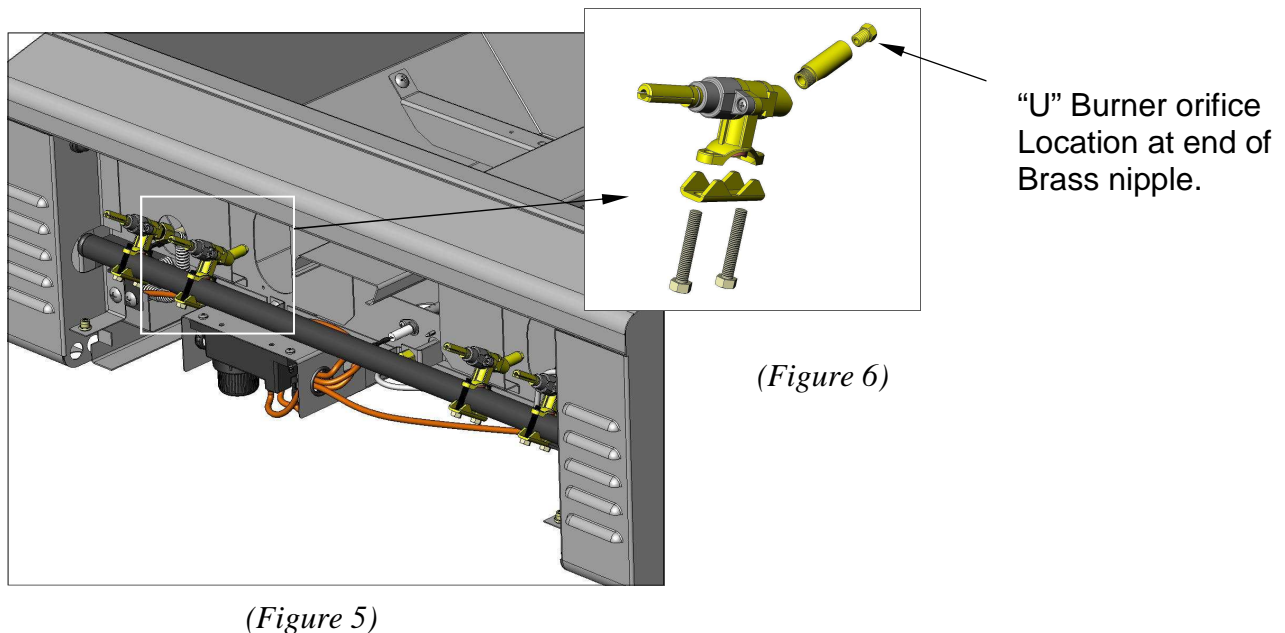
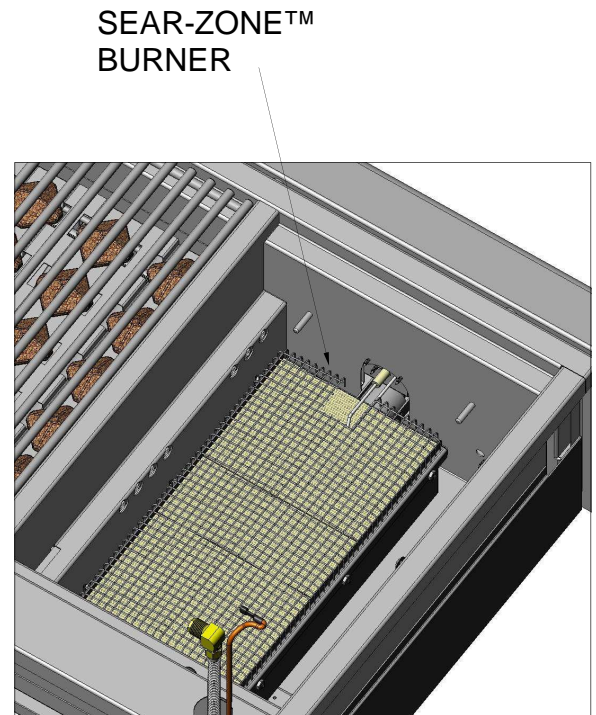
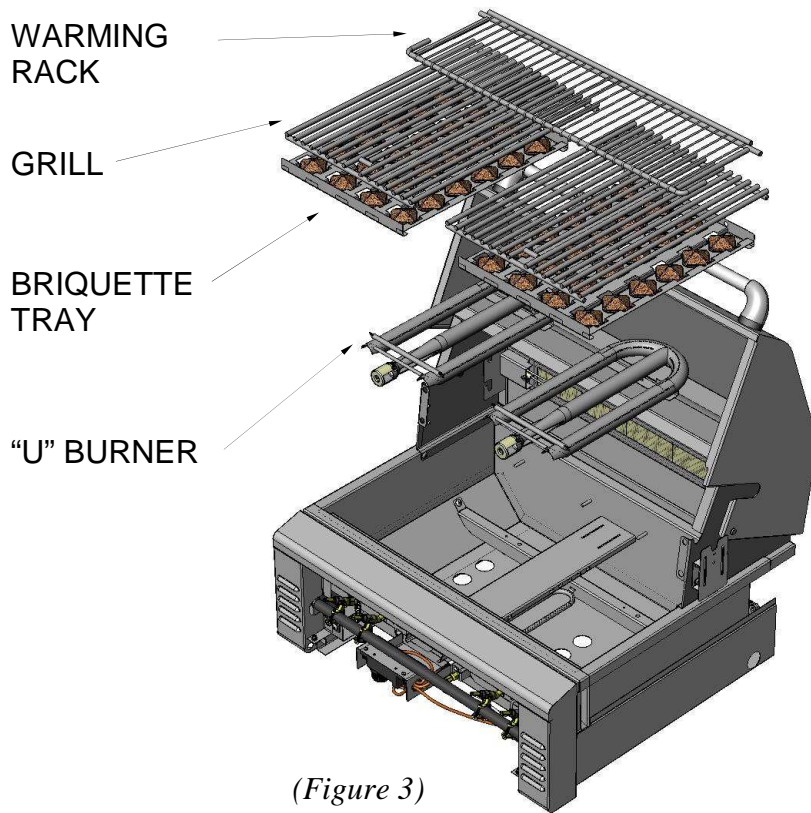
STEPS:

- 1– Remove the knobs from the valve stems by pulling them straight out of the valve stems.
- 2– Remove the smoker and drip trays.
- 3– Remove the front panel screws (4) located at each corner (2 facing down and 2 on the upper corners)
- 4– Remove the front panel to expose valves, gas manifold and igniter assembly. (*Figure 2*)

Barbeques cont.

5– Remove warming rack, grills, briquette trays and “U” burners from the barbeque unit. (*Figure 3*)

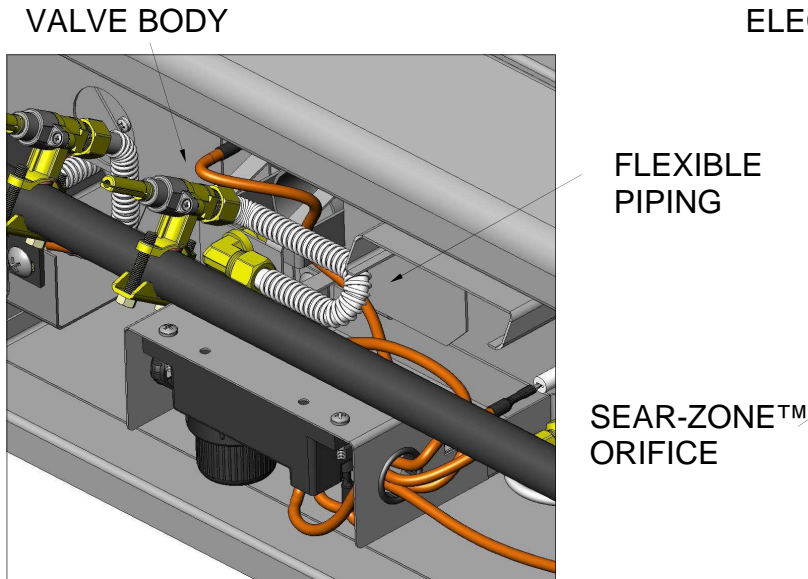
6– Should your barbeque unit be equipped with a Sear-Zone™ burner, also remove it. (*Figure 4*)



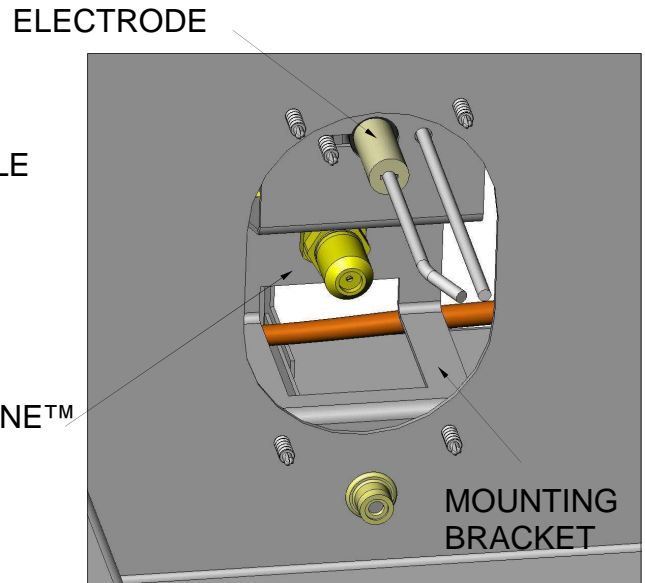
7– Now that the gas manifold and valves are exposed (*Figure 5*), remove and replace each valve’s orifice for the proper gas supply, Natural Gas or Liquid Propane. Standard “U” burners have an angled valve with an orifice located in the valve’s body, on the back at the end of an adapter nipple. (*Figure 6*)

Barbeques cont.

- 8— If your unit is equipped with a Sear-Zone™ burner, the valve has an orifice mounted externally to the valve body. The orifice is directly attached to the barbeque fire box with a bracket and connected to the valve with a flexible stainless tube. (Figure 7). It is mounted on this bracket along with the Sear-Zone™ igniter electrode. Remove and replace this orifice from the inside of the firebox. (Figure 8)

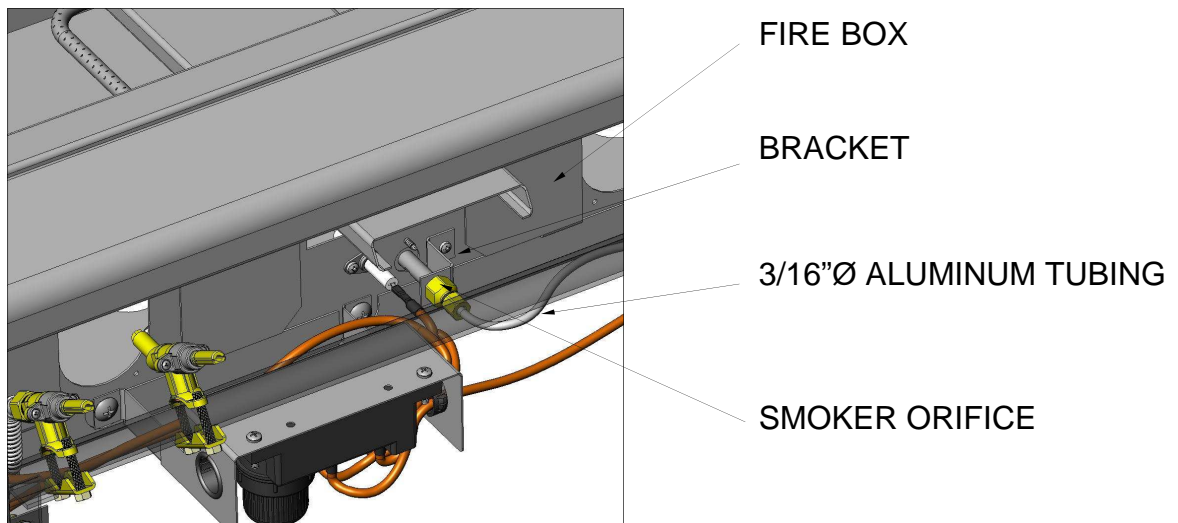


(Figure 7)



(Figure 8)

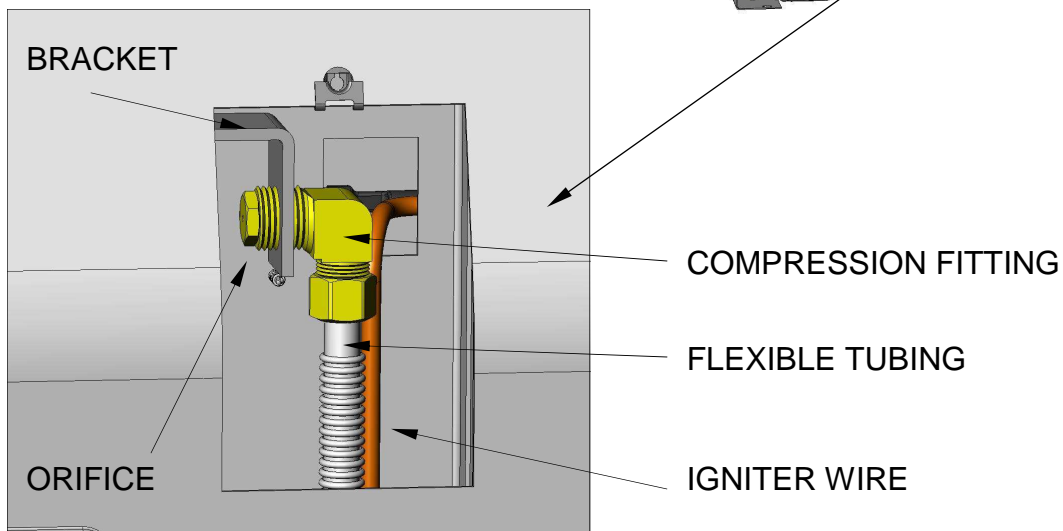
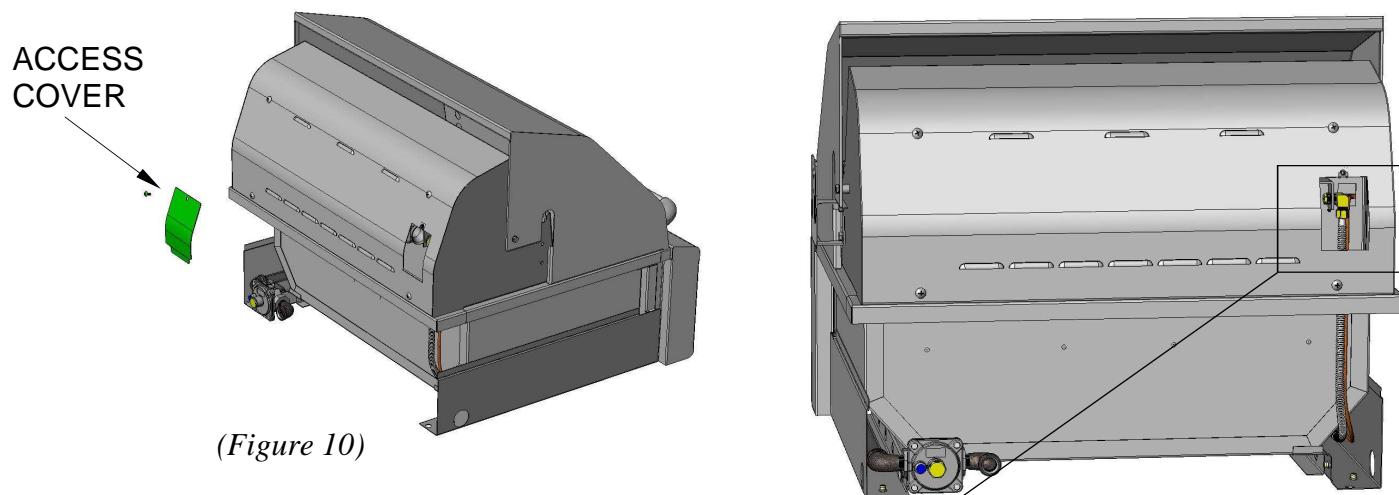
- 9— The smoker unit's orifice is also mounted externally from the control valve body. It is connected with a small 3/16" Ø aluminum tube. The orifice is mounted on a bracket attached to the fire box. To replace this orifice, remove the mounting bracket from the fire box and gently bend the aluminum tubing outward to prevent kinks. After replacement, re-install bracket / orifice assembly back into the fire box. (Figure 9)



(Figure 9)

Barbeques cont.

- 10— To replace the rotisserie orifice, it must be accessed from the back of your barbeque unit. Just like the Sear-Zone™ and the smoker unit, the rotisserie unit has an externally mounted orifice connected to the valve body with a long flexible stainless tube. Remove the rear rotisserie access plate (Figure 10) and locate the orifice on the compression fitting that is mounted on the burner bracket (Figure 11). Replace orifice and re-install the access cover.



SIDE BURNERS:

Side burners can be found as separate items such as the AGSB-2 (2 burner unit) and AGSZ (Sear-Zone™ unit) or built within the frame of the barbeque such as our AGBQ-56 model Deluxe Grill.

There are two types of side burners units. Units manufactured until 2002 have side burner units that has been discontinued, yet conversion kit are still available. Units built starting on 2003 have all components available. **Refer to the appendix area of this publication for detail description of each individual side burner model.** In either case, their respective orifices are installed and accessed in the same fashion. If a side burner is part of a barbeque such as the Deluxe Grill, gas will be supplied to the burner from the same manifold that feeds the main unit.

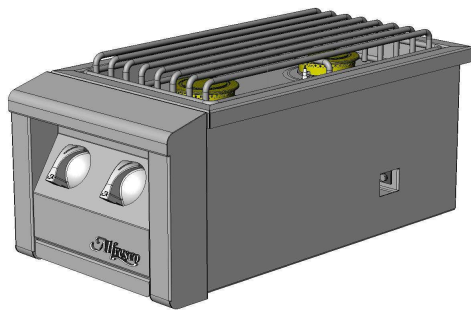
Also please note that all Individual units have their own pressure regulators.

If the side burner is part of a Deluxe Grill, the manifold will be accessed in the same fashion as shown on page# 4 — item # 7. For all other side burners units, follow the next few steps.

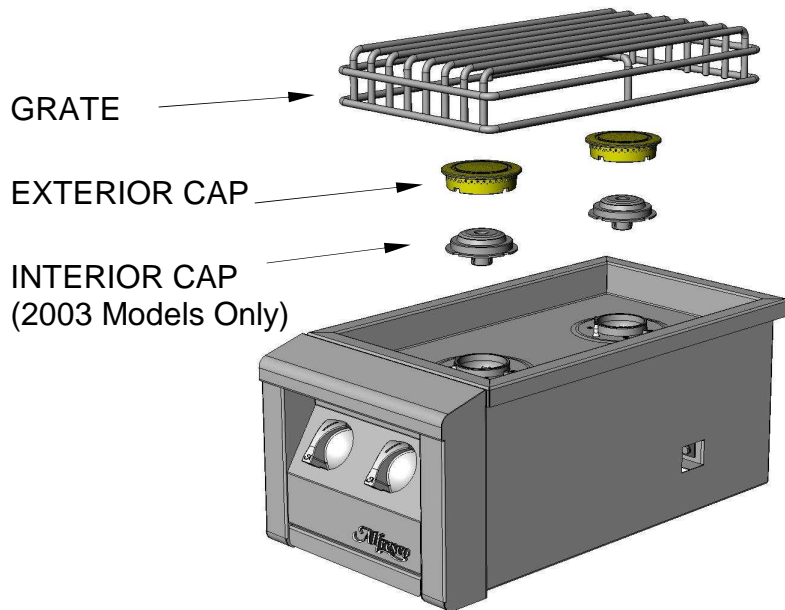
AGSB-2 Dual Side Burner

STEPS:

- 1- A dual side burner unit AGBS-2 (*Figure 12*) has the orifices readily available. Simply remove the top grate, burner external brass caps and inner aluminum caps. (*Figure 13*)
- 2- Orifices are accessible directly from the top (*Figure 14*). Remove and replace each orifice as required and re-assemble the side burners.

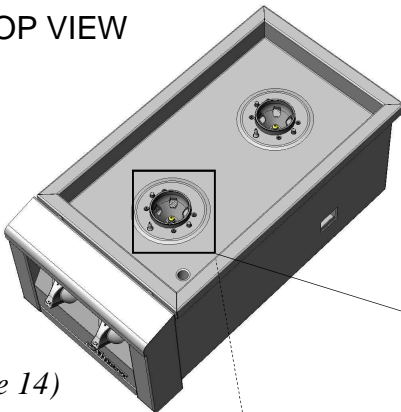


(*Figure 12*)

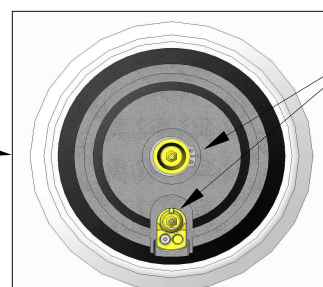
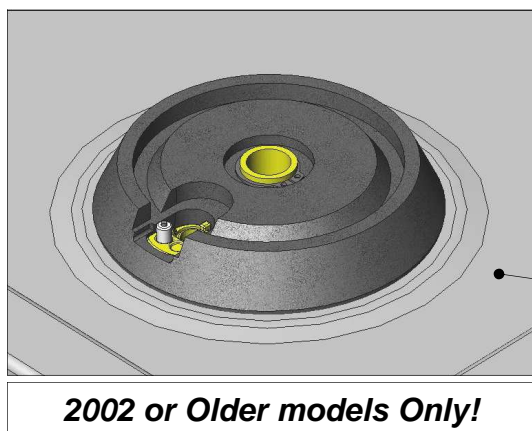
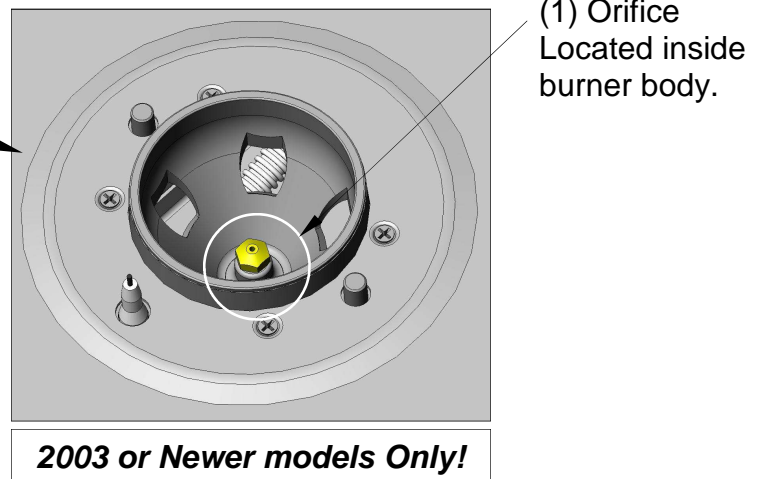


(*Figure 13*)

TOP VIEW



(*Figure 14*)

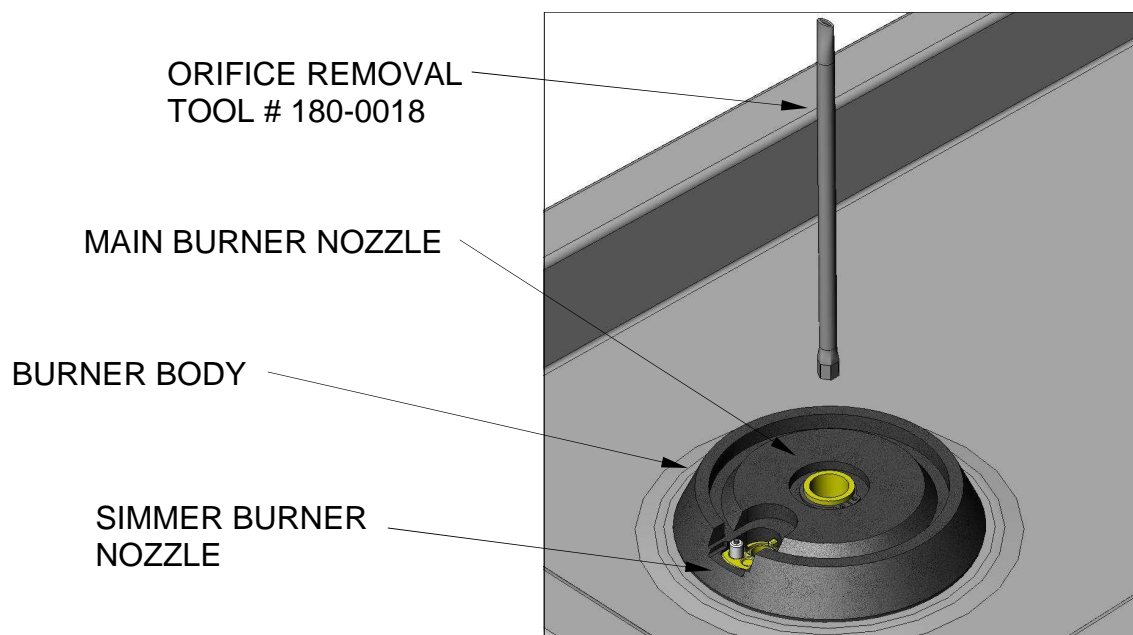


TOP VIEW

NOTE:

For side burners built 2002 or earlier, a special tool (Part number: 180-0018) is required and included in the conversion kit. This tool is required to remove and install the orifices in the main and simmer burner nozzles. (*see Old Style Burner drawing in the Appendix area.*)

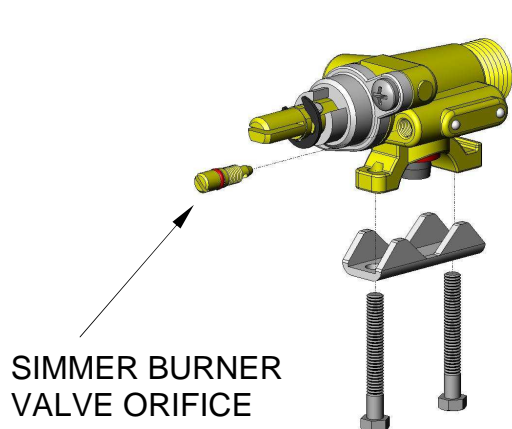
Once the side burner external cap has been removed use this orifice removal tool by inserting the hexagonal socket side downward into the tubes. Once the tool has been inserted and locked into the orifices, use a medium sized flat head screw driver and unscrew the burner orifices. (*See figure 15*). Install the new orifices in the same fashion.



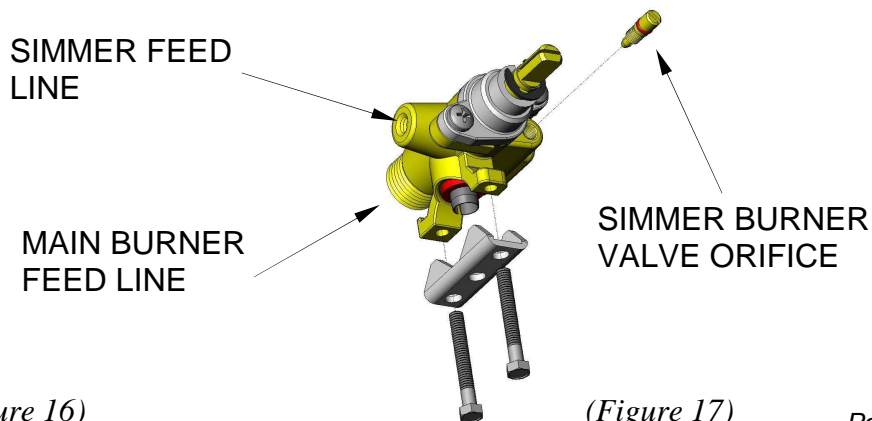
(Figure 15)

Additionally, for side burner units built 2002 or earlier , there is one additional orifice that needs to be replaced besides the orifices mentioned on page 7 - (figure 14). This additional orifice to be changed is located on the valve body that feeds the simmer burner only.

This valve can be accessed as explained on page 3 - (figure 2) if the side burner is built with the barbeque or as shown on page 9 - (figure 16) if the side burner is a stand-alone unit. Locate the valve and replace the orifice located on the right side of the valve's body that is facing the front panel . Use a small flat head screwdriver for this task.



(Figure 16)

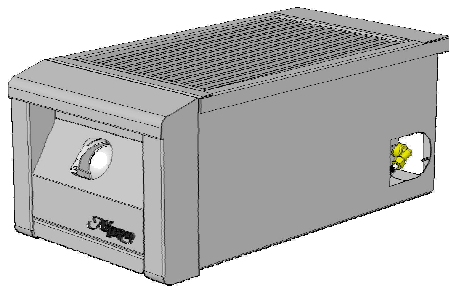


(Figure 17)

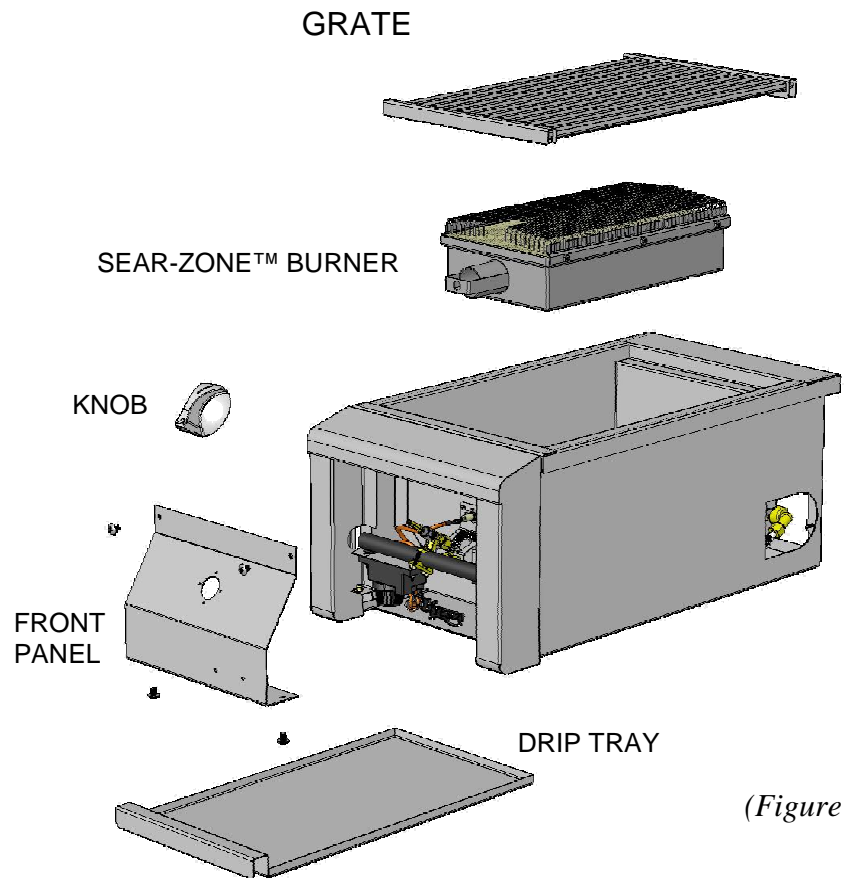
AGSZ Sear-Zone™ Side Burner

STEPS:

- 1- A Sear-Zone™ side burner unit AGSZ (*Figure 18*) has the orifice located inside the firebox assembly in the same configuration as a barbeque grill.
To access the orifice remove the top grate, Sear-Zone™ burner, knob, drip tray and front control panel (*Figure 19*).



(*Figure 18*)

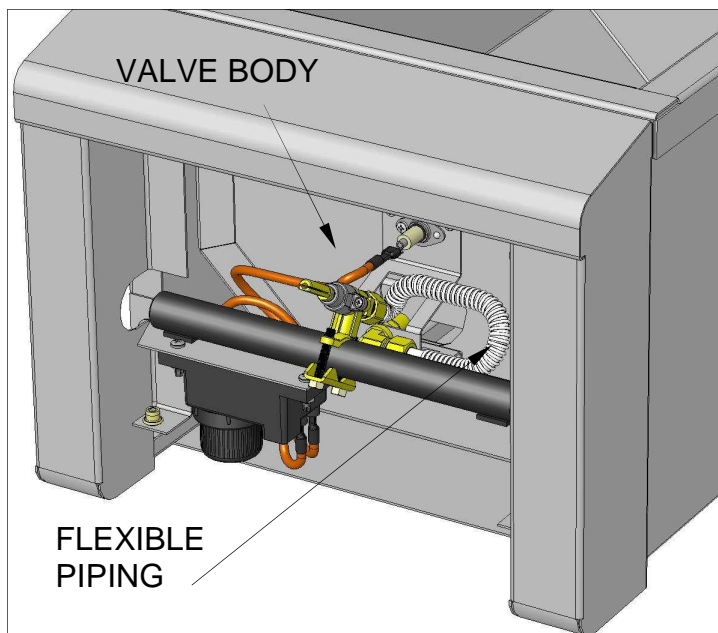


(*Figure 19*)

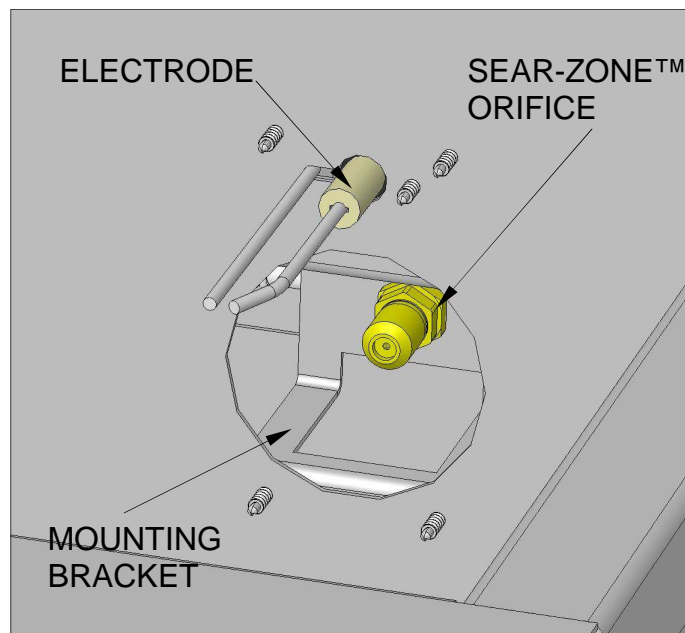
- 2- Once the front panel is removed the Sear-Zone™ orifice will be viewable (*Figure 20*). It is located externally from the control valve in similar configuration as the barbeque unit. (*Refer to page 5 point 8*).

It is however, easier to reach the orifice from the inside of the fire box assembly as it is mounted on a support bracket next to the electrode assembly. (*Figure 21*). Remove and replace. Re-assemble the unit.

Side Burners cont.



(Figure 20)



(Figure 21)

PRESSURE REGULATORS:

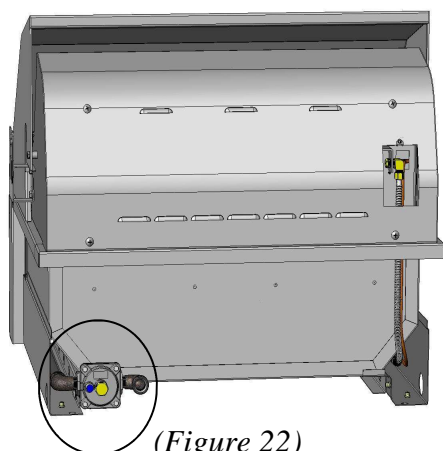
Your barbeque grill as well as side burner unit is equipped with a dual gas supply (NG or LP supply) pressure regulator standard from the factory. It is necessary however, to adjust the regulator to allow for correct pressure to flow to the gas manifold.

Units built before 2004 will be equipped with a Harper-Wyman™ brand regulator. Units built after 2004 will be equipped with a Maxitrol™ brand regulator. Both regulators are interchangeable and the adjustment to both is similar, yet the adjustment device looks different. Please refer to the following pages to correctly identify each regulator brand.

When converting from natural gas (NG) to liquid propane (LP) your conversion kit will include a 1/2"Ø MPT to 3/8"Ø Male Compression adapter nipple. This nipple is required to connect your regulator to a standard propane tank and hose kit.

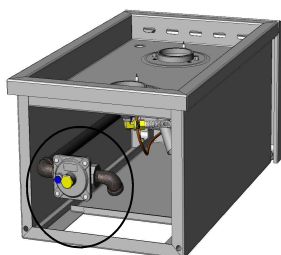
All pressure regulators are located on the back of the units and on the left side. (Figures 22, 23 & 24)

BARBEQUE GRILL



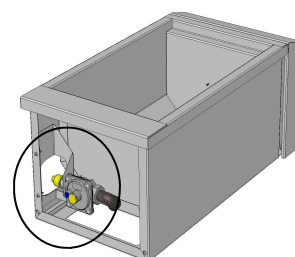
(Figure 22)

AGSB-2 SIDE BURNER



(Figure 23)

AGSZ SIDE BURNER



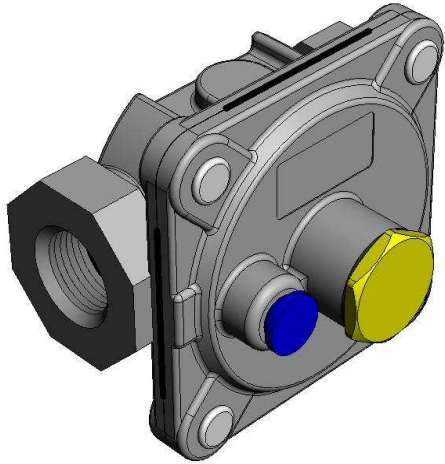
(Figure 24)

PRESSURE REGULATOR TYPES:

As mentioned before, there are two different styles of regulators, both are interchangeable. Please identify your unit's type by the following diagrams and follow the correct instructions for conversion:

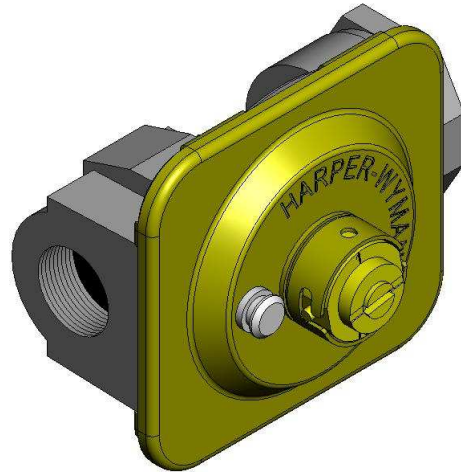
Maxitrol™ Brand Regulator

2004 or newer units



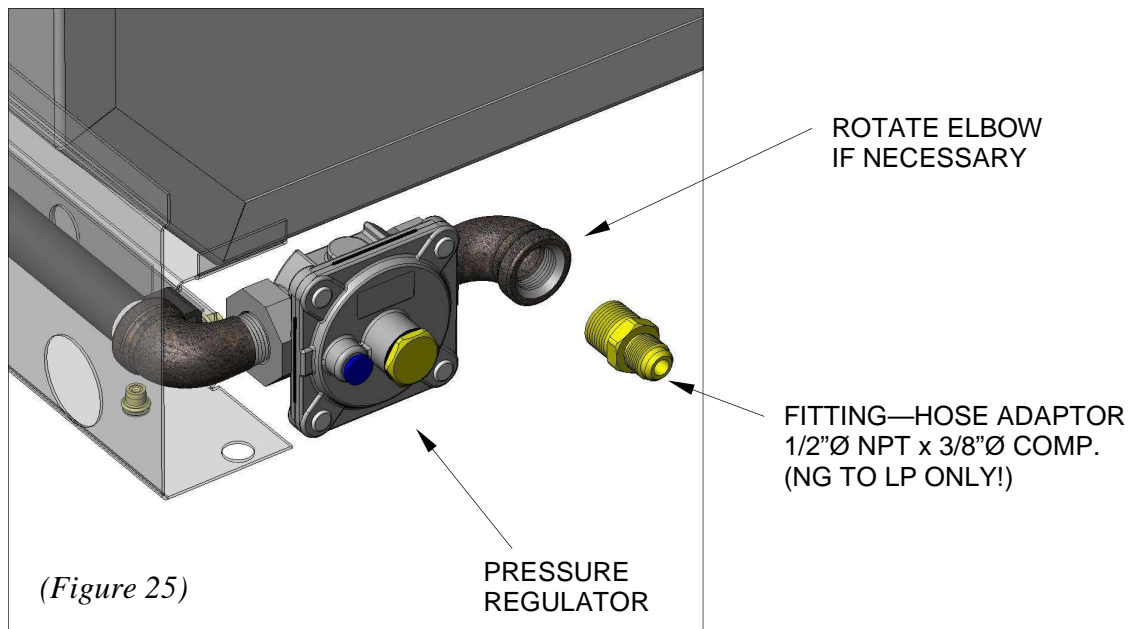
Harper-Wyman Co.™ Brand Regulator

2003 or older units



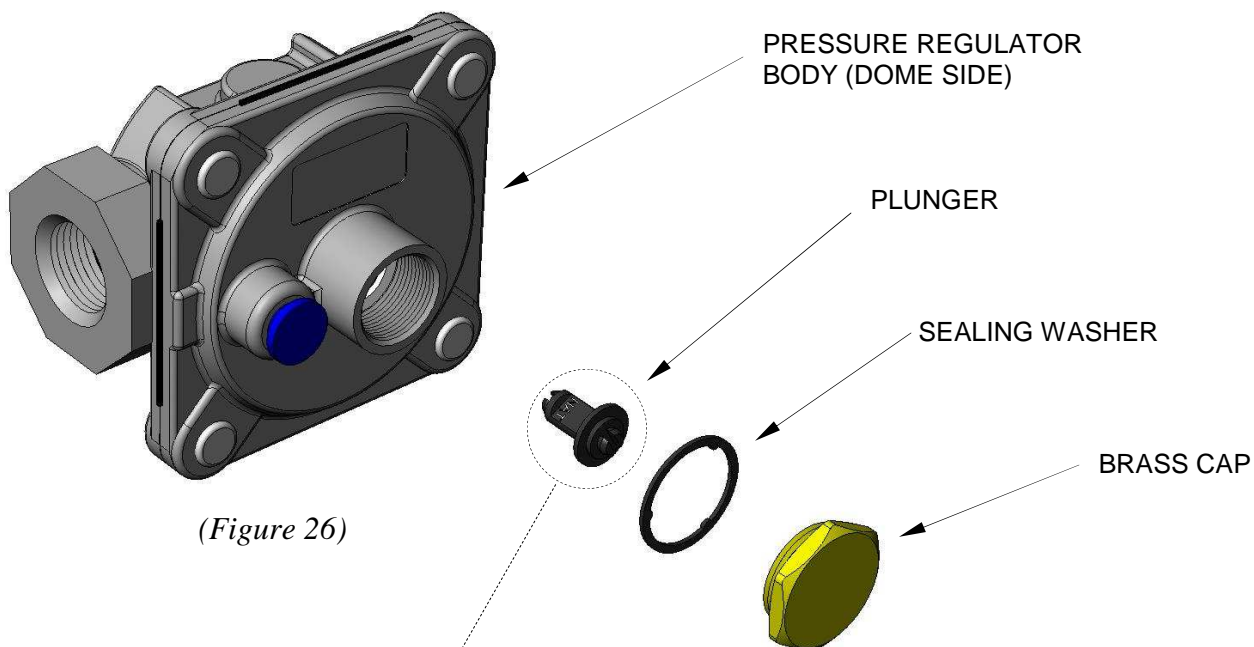
REGULATOR'S SUPPLY CONVERSION:

Locate the inlet elbow (1/2" Ø black pipe elbow) and attach the hose regulator nipple using gas approved gas plumbing seal of yellow Teflon® tape. (This step only applies to NG to LP conversion) (Figure 25)



PRESSURE ADJUSTMENT: (MAXITROL™ UNITS ONLY)

- 1– To convert the Maxitrol™ pressure regulator from NG to LP (or vice-versa) , remove the brass cap located on the large round dome of the regulator body. The cap has a sealing washer; do not lose or damage this sealing washer as it is required for a gas tight seal. (Figure 26)
- 2– Located on the cap is also a black plastic plunger. This plunger provides the correct pressure to a spring located inside the body of the regulator. It is necessary to **reverse** the direction of the plunger so it provides the right amount of pressure to the spring inside the body of the regulator. To **reverse** the plunger pull it out of the brass cap by pushing it sideways until it snaps and pops out.
- 3– The plunger is labeled “NAT” or “LP” for natural gas or liquid propane. (Figure 27). The regulator is set to the correct pressure according to the way the plunger faces the regulator body. If the plunger label reads “NAT” **towards** the body of the regulator , it will be set for natural gas. If it reads “LP” it will be set for liquid propane.



(Figure 26)



(Figure 27)

PLUNGER DETAIL:

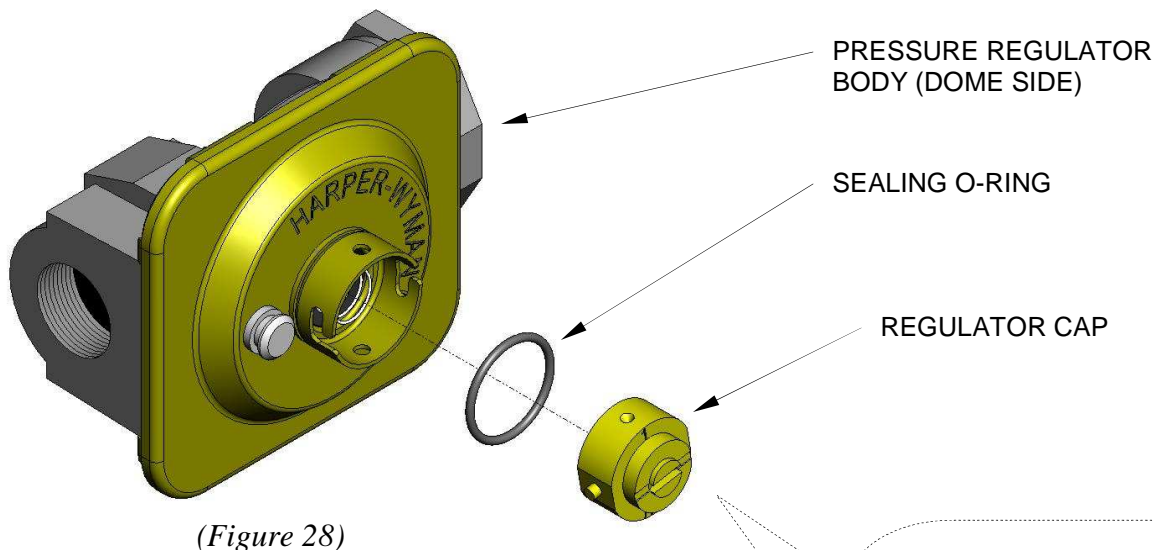
The regulator plunger is labeled “NAT” for Natural gas or “LP” for liquid propane. (The “LP” side has a wide disk on the end.) The side facing the body of the regulator determines what use is the regulator set for.

Example: The image above (Figure 26) is showing a regulator set for natural gas.

- 4– Once the regulator plunger has been reversed for it's appropriate use and snapped back into the brass cap, re-install the cap with the sealing washer back into the body or the regulator. The regulator pressure conversion is complete.

PRESSURE ADJUSTMENT: (HARPER-WYMAN CO.™ UNITS ONLY)

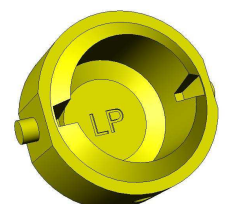
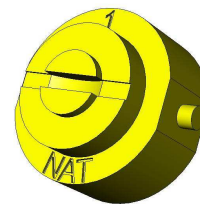
- 1– To convert the Harper-Wyman Co.™ pressure regulator from NG to LP (or vice-versa) , remove the brass cap located on the large round dome of the regulator body. The cap has two locking stubs at each end that hold it in place, turn carefully until released from the regulator body. The cap has a sealing o-ring; do not lose or damage this sealing o-ring as it is required for a gas tight seal. (Figure 28)
- 2– This cap provides the correct pressure to a spring located inside the body of the regulator. It is necessary to **reverse** the direction of the cap so it provides the right amount of pressure to the spring inside the body of the regulator.
To **reverse** the cap pull it straight out of the regulator body once it has been unlocked by turning it counter clockwise.
- 3– The cap is labeled “NAT” or “LP” for natural gas or liquid propane. (Figure 29 and 30). The regulator is set to the correct pressure according to the way the cap faces the user. If the plunger label reads “NAT”, it will be set for natural gas. If it reads “LP” it will be set for liquid propane.



PLUNGER DETAIL:

The regulator plunger is labeled “NAT” for Natural gas or “LP” for liquid propane. (The side facing the user determines what use is the regulator set for).

Example: The image above (Figure 28) is showing a regulator set for natural gas.



- 4– Once the regulator cap has been reversed for it's appropriate use and re-installed with the sealing o-ring back into the body of the regulator, the pressure adjustment is complete.

Your barbeque grill or side burner is now converted to it's new gas supply. Re-check all orifices and seals for proper tightness before applying power, gas supply and lighting your unit to adjust burners.

BURNER ADJUSTMENT:

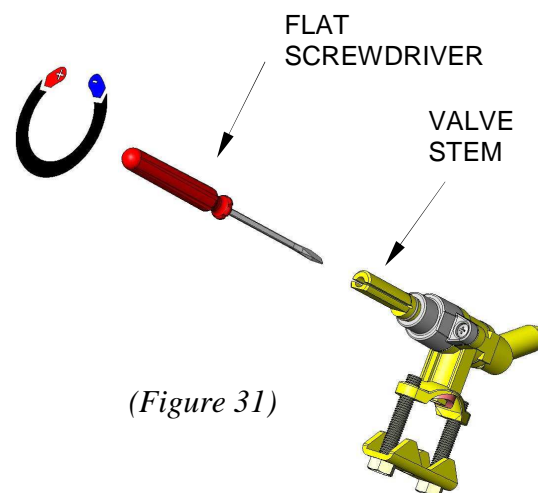
As a final step it is now necessary to adjust some burners for the correct air / gas mixture. All burners operate in the same fashion with the exception of the gas valves.

Gas valves for Sear-Zone™ and Rotisserie burners have a direct feeding valves. Gas valves for “U” shaped and Smoker burners have “idling” valves. “Idling” valves permit adjustment for the “LOW” setting in the valve to prevent the flame from going out, so they require adjustment when changing the gas supply type.

“Direct” feed valves do not have a “LOW” adjustment because they are designed for high BTUH and high gas flow operation such a the one required on Sear-Zone™ and Rotisserie burners. These burners will not go out even on their lowest setting. They are designed to run always on HIGH setting, so there is no adjustment necessary after a gas supply change.

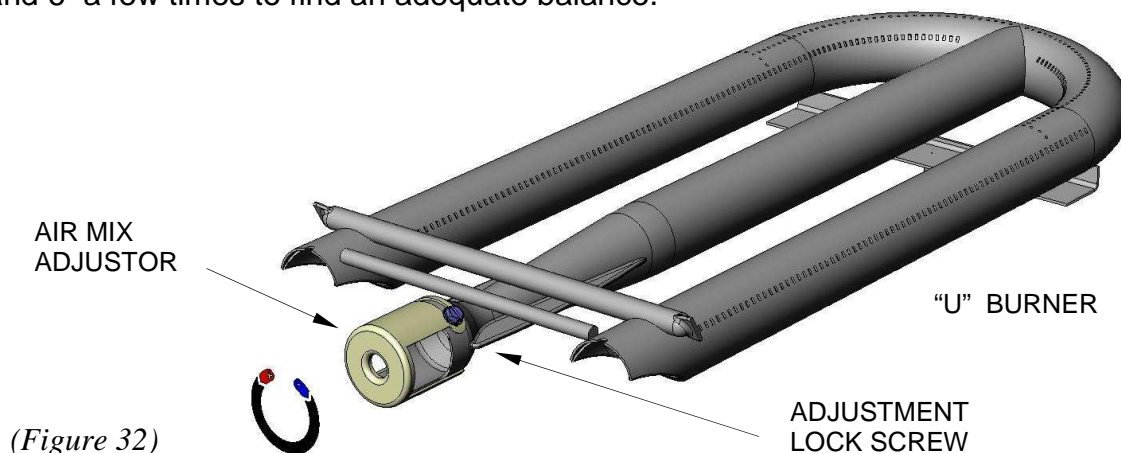
To adjust idling valves on “U” burners and Smoker burners follow the next steps:

- 1– Verify that all burner holes are clean and free of debris.
- 2– Turn the valve to “HI” and light up the burner by pressing the igniter button. Let the unit “WARM UP” for 10 minutes.
- 3– Once the burner is lit and warmed up, turn to “LOW” setting. If the flame starts to go out you must adjust the “IDLE” port inside the valve.
- 4– Using a small flat screwdriver, insert the screwdriver blade through the stem of the valve and adjust. Counter clockwise for MORE gas flow, clockwise for less.
(Figure 31)
- 5– Adjust the flame so the burner is fully lit around the perimeter when the knob is in the LOW position.



- 6- “U” burners also have an AIR INLET adjustment. If the flame around the perimeter of the burner seems to detach from the burner body, too much air is being injected into the burner. Adjust the air / gas mix by loosening the adjustment lock screw and turn clockwise for LESS air, counter clockwise for MORE. (Figure 32).

If the flame turns yellow in color, there is not enough AIR into the gas mixture. Adjust the air inlet until the flame is light blue in color with small yellow tips for proper burning. You might need to repeat step 4 and 6 a few times to find an adequate balance.



Your unit is now fully converted to a new gas supply and ready for use.

APPENDIX:

- SIDE BURNER (2003 OR NEWER)..... PAGE 16
- SIDE BURNER (2002 OR OLDER)..... PAGE 17
- ORIFICE CONVERSION KITS..... PAGE 18 ~25
- PROPANE KIT # 1 (*BARBEQUES WITH AND W/O SIDE BURNERS*) PAGE 26
- PROPANE KIT # 2 (*SIDE BURNERS UNITS ONLY*) PAGE 27

NOTE:

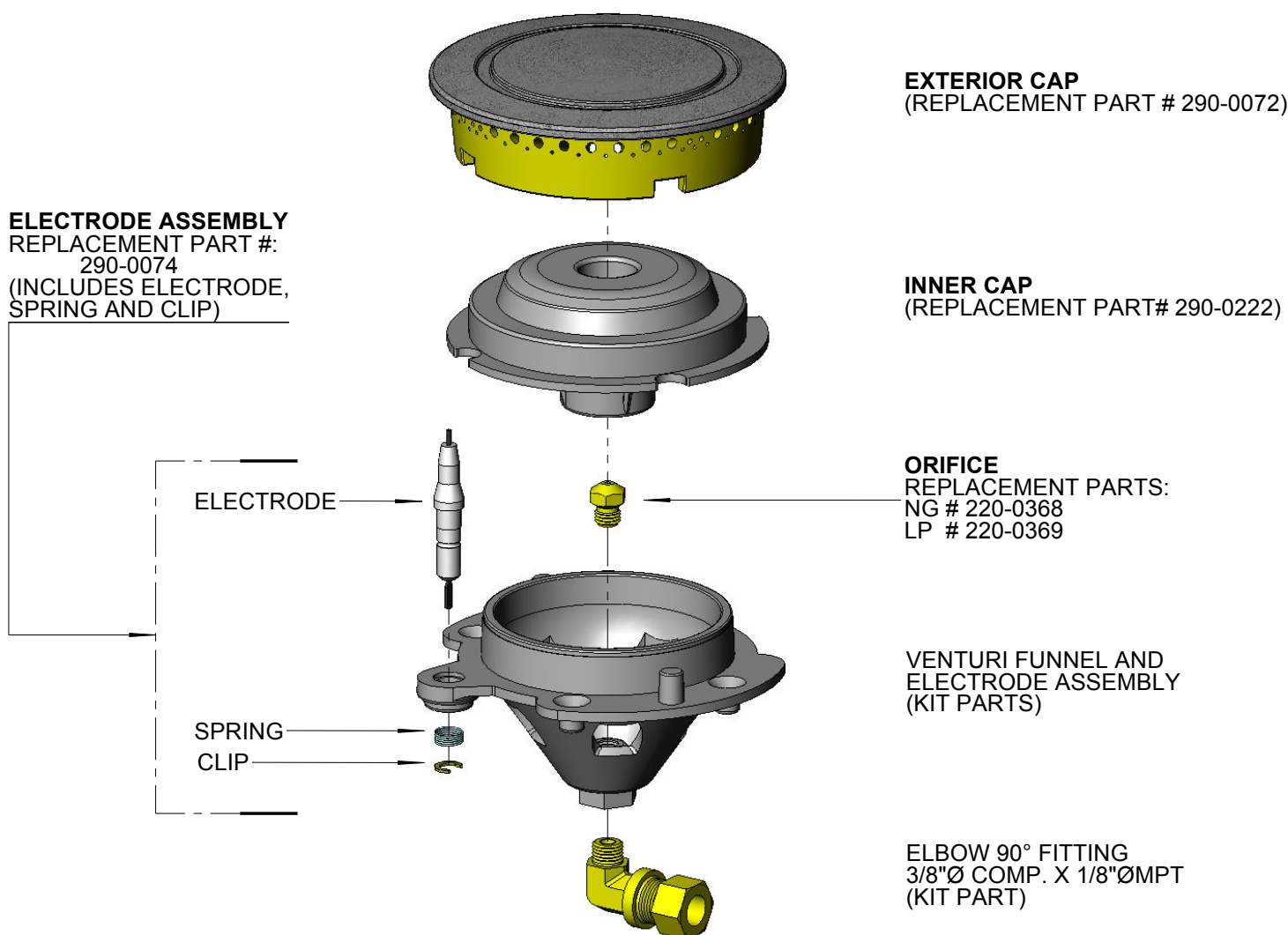
SIDE BURNER ASSEMBLIES ARE USED IN AGBQ AND ALX2 BARBEQUES, AGVPC UNIT (VERSAPOWER™) COOKING SYSTEMS AS WELL AS UNDIVIDUAL UNITS (AGSB-2) BUT CAN ALSO BE ORDERED AS A WHOLE UNIT (KIT) FOR NATURAL GAS (NG) OR LIQUID PROPANE (LP).

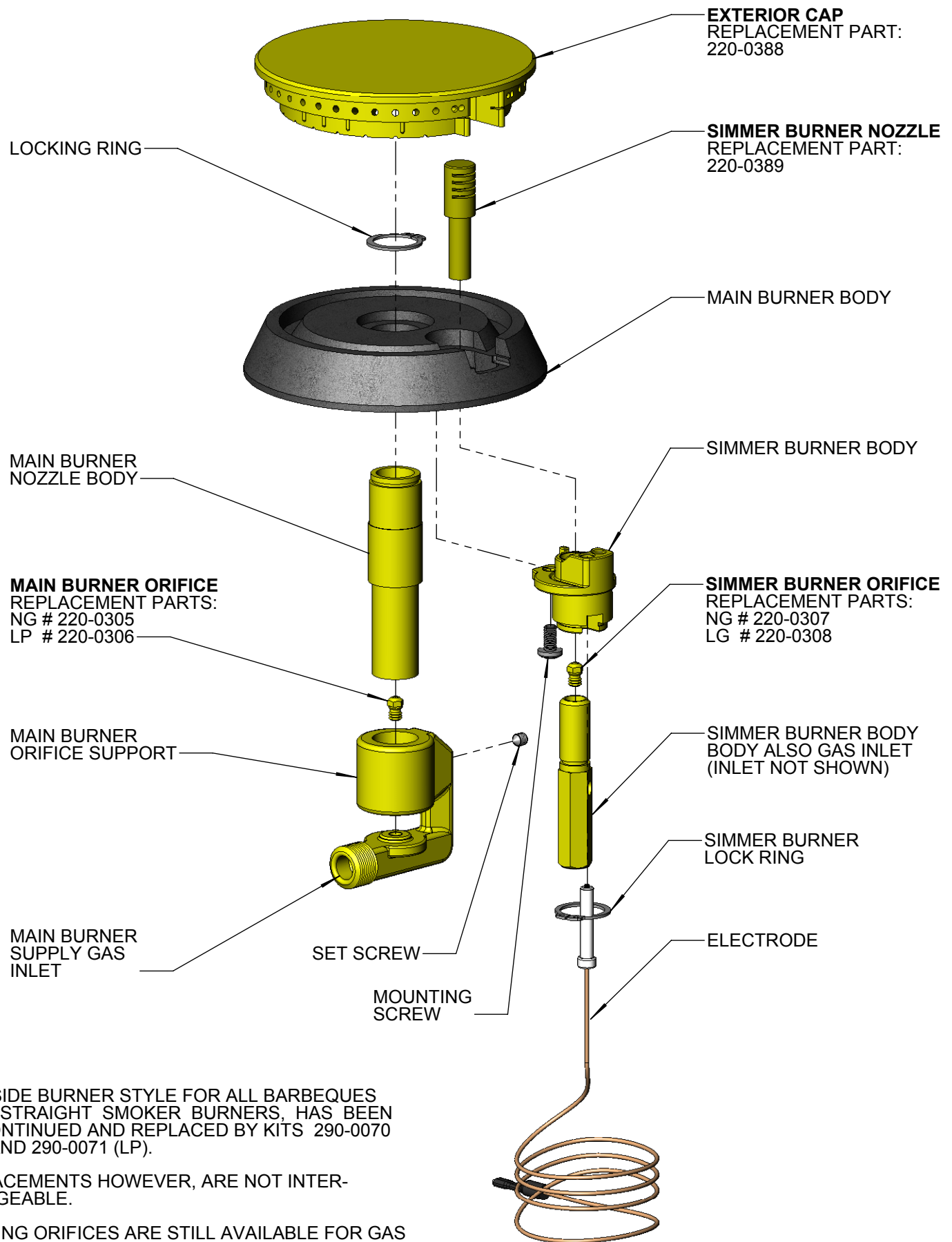
COMPLETE KITS NUMBERS:

NATURAL GAS (NG) = 290-0070

LIQUID PROPANE (LP) = 290-0071

CAPS, ORIFICES AND ELECTRODES CAN BE INDIVIDUALLY REPLACED IF REQUIRED - SEE NUMBERS BELOW.





NOTE:
THIS SIDE BURNER STYLE FOR ALL BARBEQUES WITH STRAIGHT SMOKER BURNERS, HAS BEEN DISCONTINUED AND REPLACED BY KITS 290-0070 (NG) AND 290-0071 (LP).

REPLACEMENTS HOWEVER, ARE NOT INTER-CHANGEABLE.

EXISTING ORIFICES ARE STILL AVAILABLE FOR GAS SUPPLY CONVERSION AS SHOWN ON THE ABOVE MENTIONED PART NUMBERS.

'U' BURNER
ORIFICE

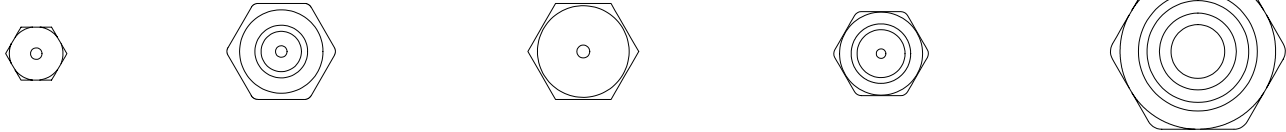
ZEAR-ZONE™
BURNER
ORIFICE

ROTISSERIE
BURNER
ORIFICE

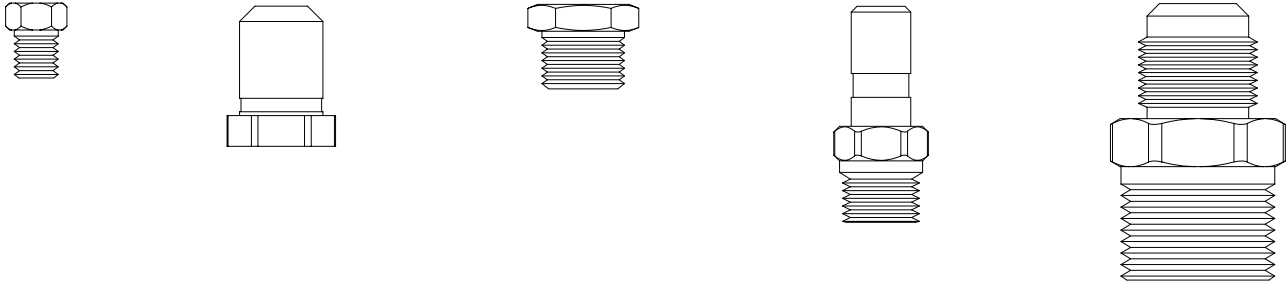
SMOKER
BURNER
ORIFICE

HOSE ADAPTER
NIPPLE

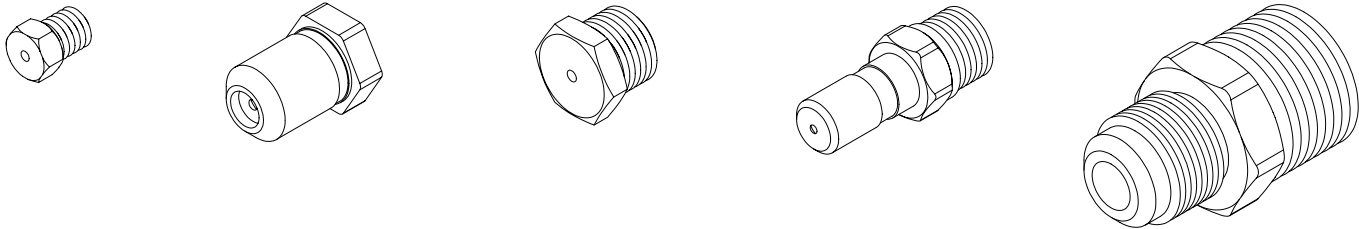
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	NG → LP		
AGBQ-30 AGBQ-30SZ AGBQ-30IR	KIT DESCRIPTION:	AGCK-30/NG-LP		
	KIT NUMBER:	190-0007		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER - LP	1.55 mm	220-0282	2
	SEAR-ZONE™ - LP	52 GA.	220-0290	2
	ROTISSERIE - LP	57 GA	220-0284	1
	SMOKER - LP - "U-SHAPED"	65 GA	220-0288	1
	HOSE ADAPTER NIPPLE		220-0275	1

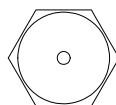
'U' BURNER
ORIFICE

ZEAR-ZONE™
BURNER
ORIFICE

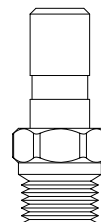
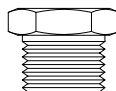
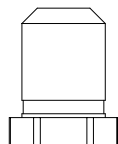
ROTISSERIE
BURNER
ORIFICE

SMOKER
BURNER
ORIFICE

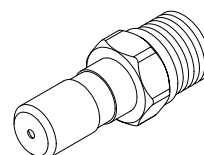
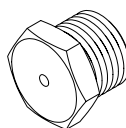
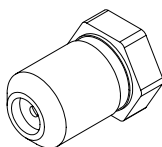
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	LP → NG		
AGBQ-30 AGBQ-30SZ AGBQ-30IR	KIT DESCRIPTION:	AGCK-30/LP-NG		
	KIT NUMBER:	190-0008		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER - NG	2.55 mm	220-0281	2
	SEAR-ZONE™ - NG	39 GA.	220-0289	2
	ROTISSERIE - NG	50 GA	220-0283	1
	SMOKER - NG - "U-SHAPED"	60 GA	220-0287	1

'U' BURNER ORIFICE

ZEAR-ZONE™ BURNER ORIFICE

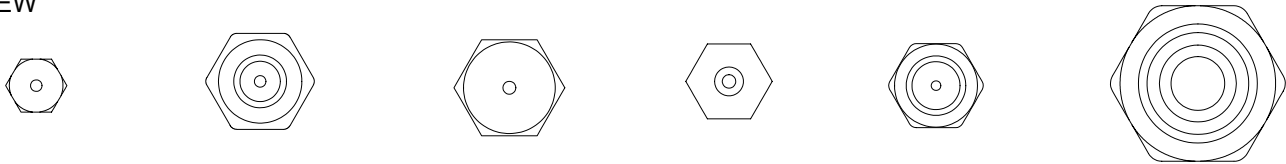
ROTISSERIE BURNER ORIFICE

SIDE BURNER ORIFICE

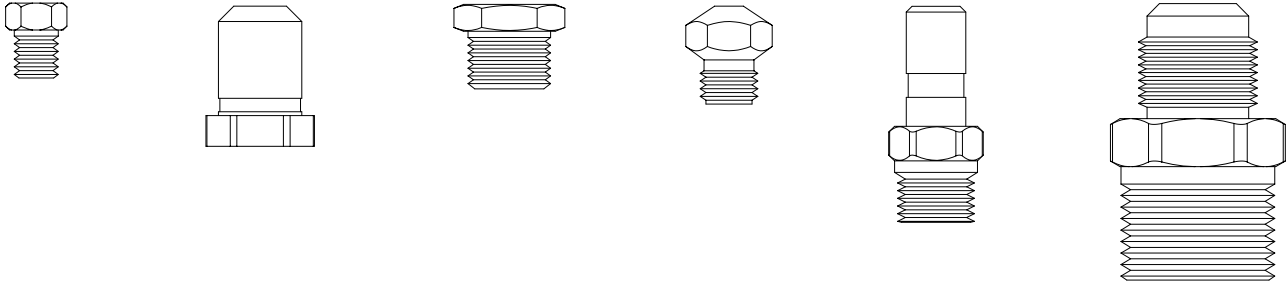
SMOKER BURNER ORIFICE

HOSE ADAPTER NIPPLE

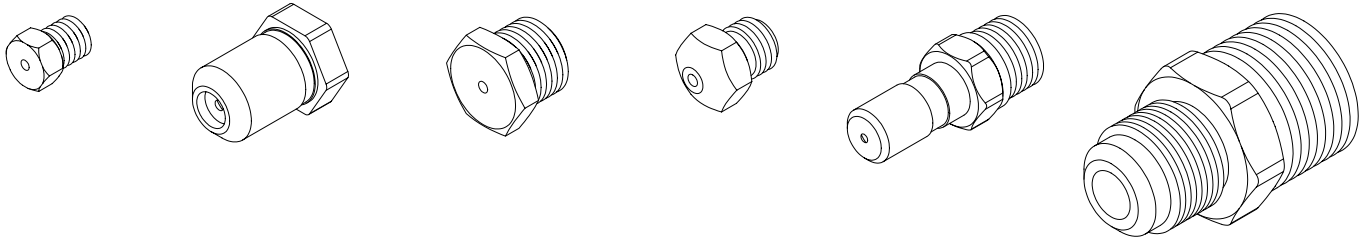
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	NG → LP		
AGBQ-42	KIT DESCRIPTION:	AGCK-42/56/NG-LP		
AGBQ-42SZ	KIT NUMBER:	190-0009		
AGBQ-56	ITEM	ORIFICE	PART #	QTY:
AGBQ-56SZ	"U" BURNER - LP	1.55 mm	220-0282	3
	SEAR-ZONE™ - LP	52 GA.	220-0290	1
	ROTISSERIE - LP	56 GA	220-0286	1
	SIDE BURNER - LP	1.15 mm	220-0292	2
	SMOKER - LP - "U-SHAPED"	65 GA	220-0288	1
	HOSE ADAPTER NIPPLE		220-0275	1

'U' BURNER
ORIFICE

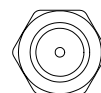
ZEAR-ZONE™
BURNER
ORIFICE

ROTISSERIE
BURNER
ORIFICE

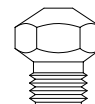
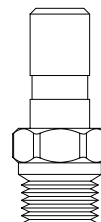
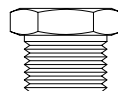
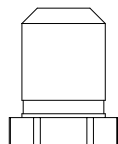
SMOKER
BURNER
ORIFICE

SIDE
BURNER
ORIFICE

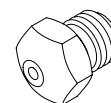
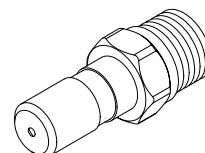
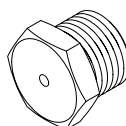
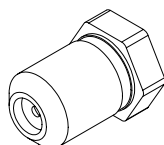
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	LP → NG		
AGBQ-42	KIT DESCRIPTION:	AGCK-42/56/LP-NG		
AGBQ-42SZ	KIT NUMBER:	190-0010		
AGBQ-56	ITEM	ORIFICE	PART #	QTY:
AGBQ-56SZ	"U" BURNER - NG	2.55 mm	220-0281	3
	SEAR-ZONE™ - NG	39 GA.	220-0289	1
	ROTISSERIE - NG	48 GA	220-0285	1
	SIDE BURNER - NG	1.78 mm	220-0291	2
	SMOKER - NG - "U-SHAPED"	60 GA	220-0287	1

'U' BURNER
ORIFICE

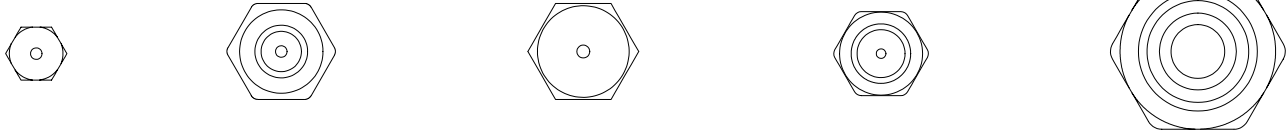
ZEAR-ZONE™
BURNER
ORIFICE

ROTISSERIE
BURNER
ORIFICE

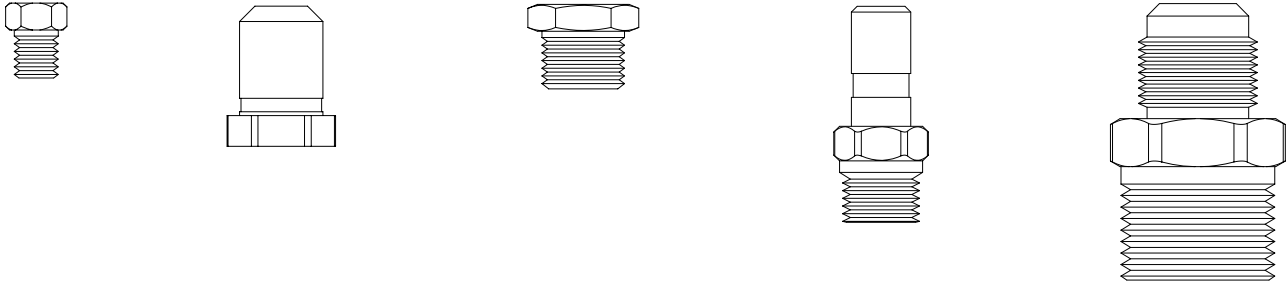
SMOKER
BURNER
ORIFICE

HOSE ADAPTER
NIPPLE

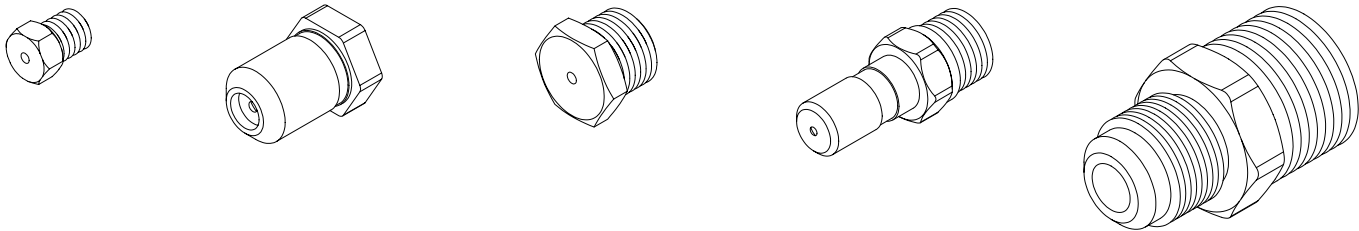
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODEL:	USE:	NG → LP		
AGBQ-56BFG	KIT DESCRIPTION:	AGCK-56BFG/NG-LP		
	KIT NUMBER:	190-0011		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER - LP	1.55 mm	220-0282	3
	SEAR-ZONE™ - LP	52 GA.	220-0290	1
	ROTISSERIE - LP	57 GA	220-0284	2
	SMOKER - LP - "U-SHAPED"	65 GA	220-0288	1
	HOSE ADAPTER NIPPLE		220-0275	1

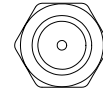
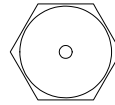
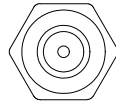
'U' BURNER
ORIFICE

ZEAR-ZONE™
BURNER
ORIFICE

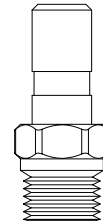
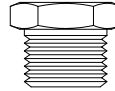
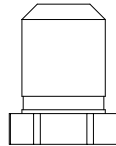
ROTISSERIE
BURNER
ORIFICE

SMOKER
BURNER
ORIFICE

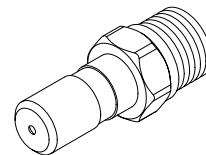
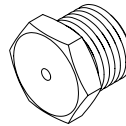
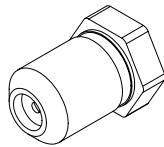
FRONT VIEW



SIDE VIEW



ISO VIEW



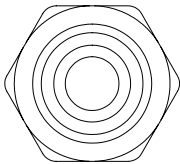
ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODEL:	USE:	LP → NG		
AGBQ-56BFG	KIT DESCRIPTION:	AGCK-56BFG/LP-NG		
	KIT NUMBER:	190-0012		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER - NG	2.55 mm	220-0281	3
	SEAR-ZONE™ - NG	39 GA.	220-0289	1
	ROTISSERIE - NG	50 GA	220-0283	2
	SMOKER - NG - "U-SHAPED"	60 GA	220-0287	1

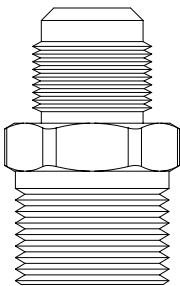
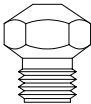
SIDE
BURNER
ORIFICE

HOSE ADAPTER
NIPPLE

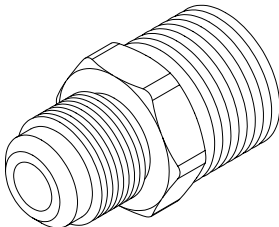
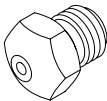
FRONT VIEW



SIDE VIEW



ISO VIEW



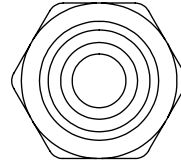
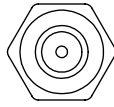
ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODEL:	USE:	NG ↔ LP		
AGSB-2	KIT DESCRIPTION:	AGCK-SB-2/NG/LP		
	KIT NUMBER:	190-0013		
	ITEM	ORIFICE	PART #	QTY:
	SIDE BURNER - NG	1.78 mm	220-0291	2
	SIDE BURNER - LP	1.15 mm	220-0292	2
	HOSE ADAPTER NIPPLE		220-0275	1

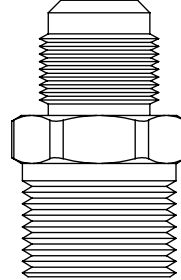
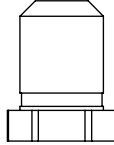
SEAR-ZONE™
ORIFICE

HOSE ADAPTER
NIPPLE

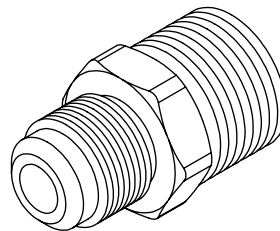
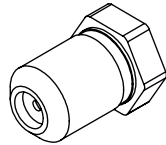
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

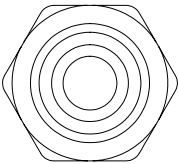
MODEL:	USE:	NG ↔ LP		
AGSZ	KIT DESCRIPTION:	AGCK-SB-SZ/NG/LP		
	KIT NUMBER:	190-0014		
	ITEM	ORIFICE	PART #	QTY:
	SEAR-ZONE™ - NG	39 GA.	220-0289	1
	SEAR-ZONE™ - LP	52 GA.	220-0290	1
	HOSE ADAPTER NIPPLE		220-0275	1

SIDE BURNER ORIFICES

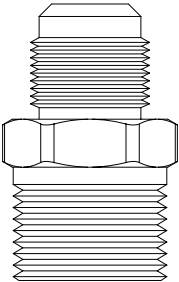
VALVE SIMMER MAIN

HOSE ADAPTER NIPPLE

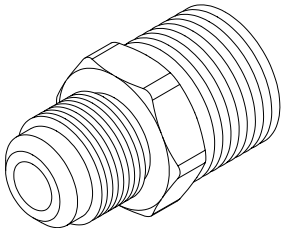
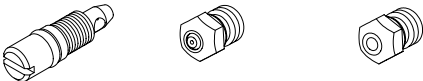
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODEL:	USE:	NG ↔ LP		
AGSB-2	KIT DESCRIPTION:	AGCK-SB-2/NG/LP-OS		
	KIT NUMBER:	190-0017		
	ITEM	ORIFICE	PART #	QTY:
	SIDE BURNER - LP - MAIN	1.21 mm	220-0306	2
	SIDE BURNER - NG - MAIN	1.82 mm	220-0305	2
	SIDE BURNER - LP - SIMMER	0.24 mm	220-0308	2
	SIDE BURNER - NG - SIMMER	0.32 mm	220-0307	2
	SIDE BURNER - LP - VALVE	50 GA	220-0283	2
	SIDE BURNER - NG - VALVE	75 GA	220-0309	2
	SIDE BURNER ORIFICE REMOVAL TOOL	180-0018		1
	HOSE ADAPTER NIPPLE	220-0275		1



SIDE BURNER ORIFICE REMOVAL TOOL 180-0018

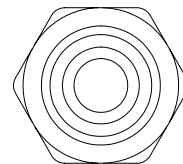
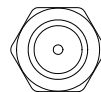
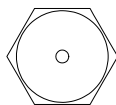
**ZEAR-ZONE™
& 'U' BURNER
ORIFICE**

**ROTISSERIE
BURNER
ORIFICE**

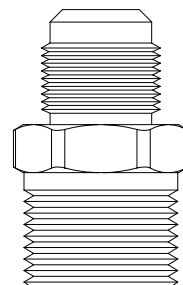
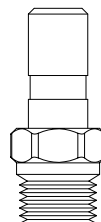
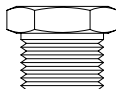
**SMOKER
BURNER
ORIFICE**

**HOSE ADAPTER
NIPPLE**

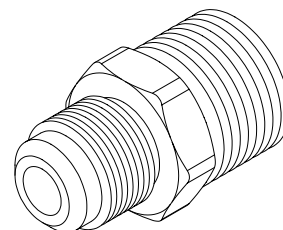
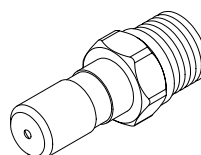
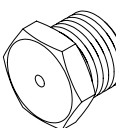
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	NG → LP		
AGBQ-30 AGBQ-30SZ	KIT DESCRIPTION:	AGCK-30/NG-LP-OS		
	KIT NUMBER:	190-0018		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	1.55 mm	220-0282	2
	ROTISSERIE - LP	57 GA	220-0286	1
	SMOKER - LP - "STRAIGHT"	75 GA	220-0314	1
	HOSE ADAPTER NIPPLE		220-0275	1

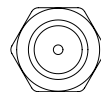
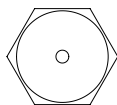
REV.N°:	DESCRIPTION:	DATE:	BY:

**ZEAR-ZONE™
& 'U' BURNER
ORIFICE**

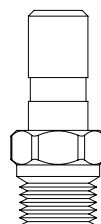
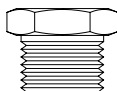
**ROTISSERIE
BURNER
ORIFICE**

**SMOKER
BURNER
ORIFICE**

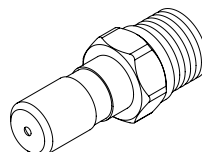
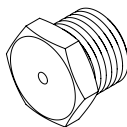
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	LP → NG		
AGBQ-30 AGBQ-30SZ	KIT DESCRIPTION:	AGCK-30/LP-NG-OS		
	KIT NUMBER:	190-0019		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	2.55 mm	220-0281	2
	ROTISSERIE - NG	50 GA	220-0283	1
	SMOKER - NG - "STRAIGHT"	70 GA	220-0313	1

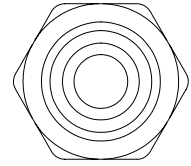
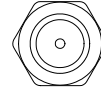
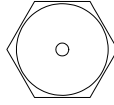
ZEAR-ZONE™
& "U" BURNER
ORIFICE

ROTISSERIE
BURNER
ORIFICE

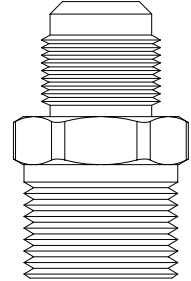
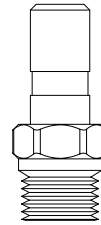
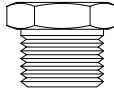
SMOKER
BURNER
ORIFICE

HOSE ADAPTER
NIPPLE

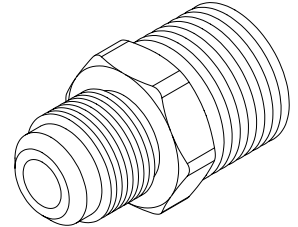
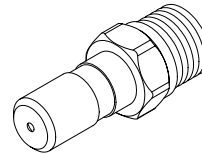
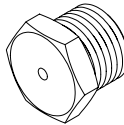
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

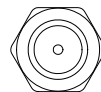
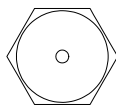
MODELS:	USE:	NG → LP		
AGBQ-42 AGBQ-42SZ	KIT DESCRIPTION:	AGCK-42/NG-LP-OS		
	KIT NUMBER:	190-0020		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	1.55 mm	220-0282	3
	ROTISSERIE - LP	56 GA	220-0286	1
	SMOKER - LP - "STRAIGHT"	75 GA	220-0314	1
HOSE ADAPTER NIPPLE			220-0275	1

ZEAR-ZONE™
& "U" BURNER
ORIFICE

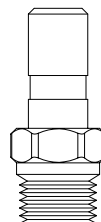
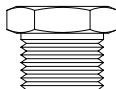
ROTISSERIE
BURNER
ORIFICE

SMOKER
BURNER
ORIFICE

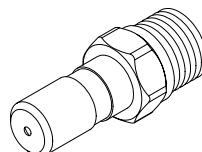
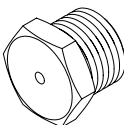
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	LP → NG		
AGBQ-42 AGBQ-42SZ	KIT DESCRIPTION:	AGCK-42/LP-NG-OS		
	KIT NUMBER:	190-0021		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	2.55 mm	220-0281	3
	ROTISSERIE - NG	48 GA	220-0285	1
	SMOKER - NG - "STRAIGHT"	70 GA	220-0313	1

SIDE BURNER ORIFICES

VALVE SIMMER MAIN

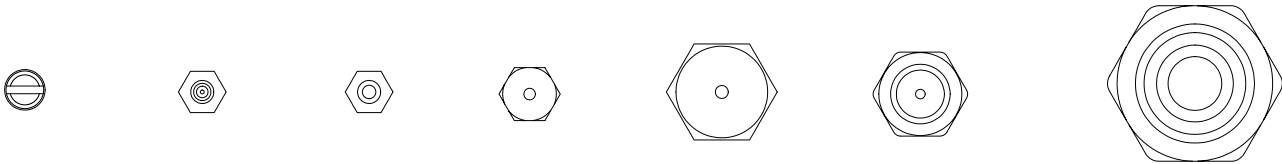
ZEAR-ZONE™ & "U" BURNER ORIFICE

ROTISSERIE BURNER ORIFICE

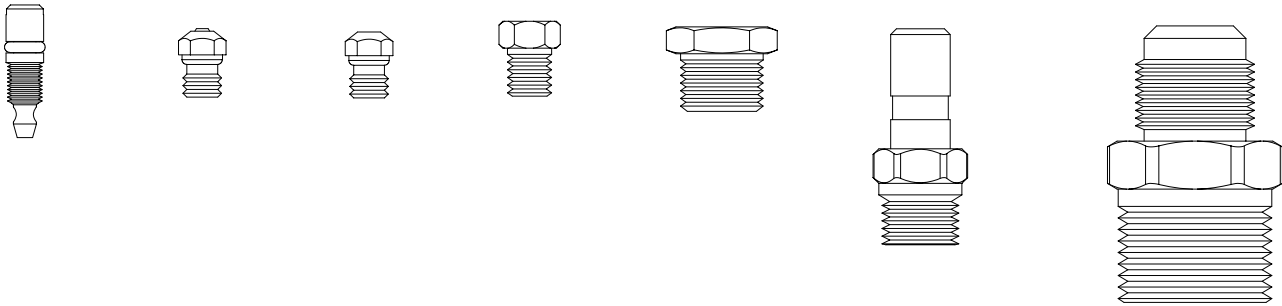
SMOKER BURNER ORIFICE

HOSE ADAPTER NIPPLE

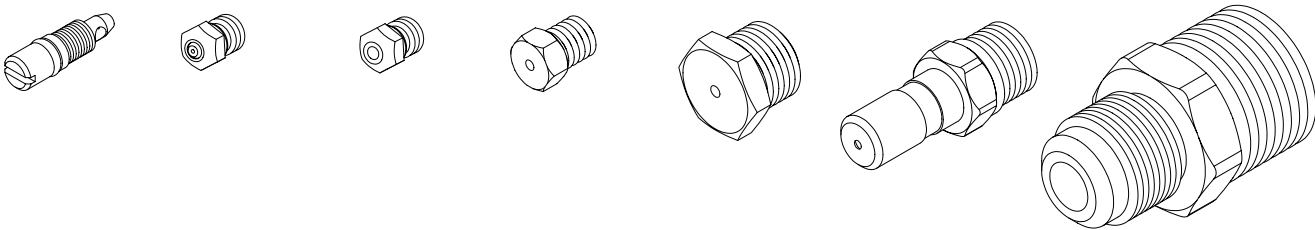
FRONT VIEW



SIDE VIEW



ISO VIEW



ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	NG → LP		
AGBQ-56 AGBQ-56SZ	KIT DESCRIPTION:	AGCK-56/NG-LP-OS		
	KIT NUMBER:	190-0022		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	1.55 mm	220-0282	3
	ROTISSERIE - LP	56 GA	220-0286	1
	SIDE BURNER - LP - MAIN	1.21 mm	220-0306	2
	SIDE BURNER - LP - SIMMER	0.24 mm	220-0308	2
	SIDE BURNER - LP - VALVE	50 GA	220-0283	2
	SMOKER - LP - "STRAIGHT"	75 GA	220-0314	1
	SIDE BURNER ORIFICE REMOVAL TOOL		180-0018	1
	HOSE ADAPTER NIPPLE		220-0275	1



SIDE BURNER ORIFICE REMOVAL TOOL 180-0018

SIDE BURNER ORIFICES

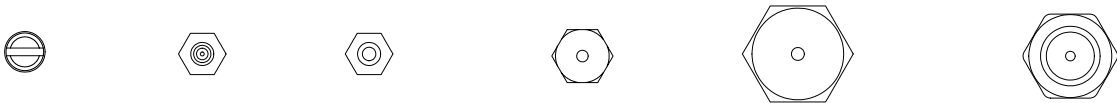
VALVE SIMMER MAIN

ZEAR-ZONE™
& "U" BURNER
ORIFICE

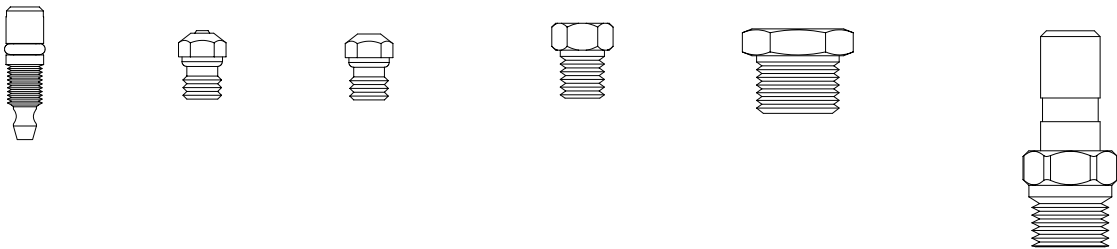
ROTISSERIE
BURNER
ORIFICE

SMOKER
BURNER
ORIFICE

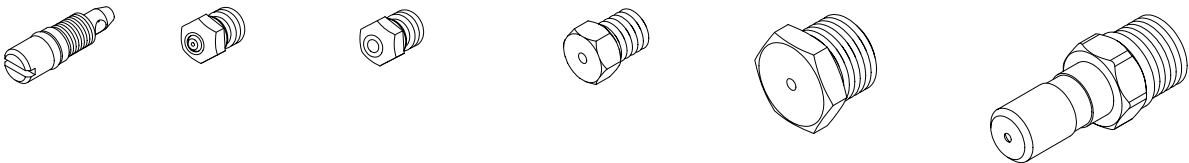
FRONT VIEW



SIDE VIEW



ISO VIEW



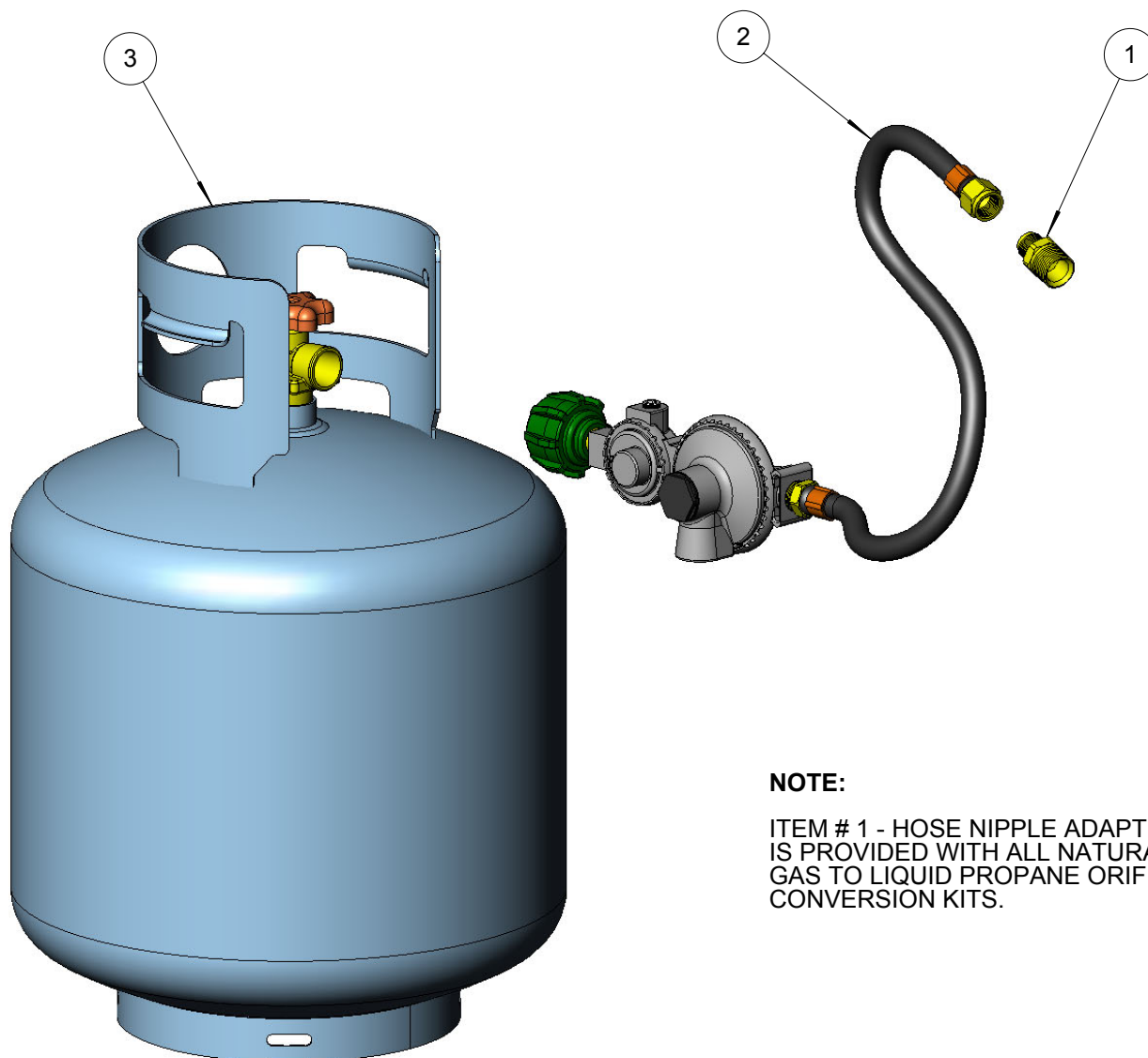
ALL ORIFICES & NIPPLES SHOWN ACTUAL SIZE

MODELS:	USE:	LP → NG		
AGBQ-56 AGBQ-56SZ	KIT DESCRIPTION:	AGCK-56/LP-NG-OS		
	KIT NUMBER:	190-0023		
	ITEM	ORIFICE	PART #	QTY:
	"U" BURNER & SEAR-ZONE™	2.55 mm	220-0281	3
	ROTISSERIE - NG	48 GA	220-0285	1
	SIDE BURNER - NG - MAIN	1.82 mm	220-0305	2
	SIDE BURNER - NG - SIMMER	0.32 mm	220-0307	2
	SIDE BURNER - NG - VALVE	75 GA	220-0309	2
	SMOKER - NG - "STRAIGHT"	70 GA	220-0313	1
	SIDE BURNER ORIFICE REMOVAL TOOL	180-0018		1



SIDE BURNER ORIFICE REMOVAL TOOL 180-0018

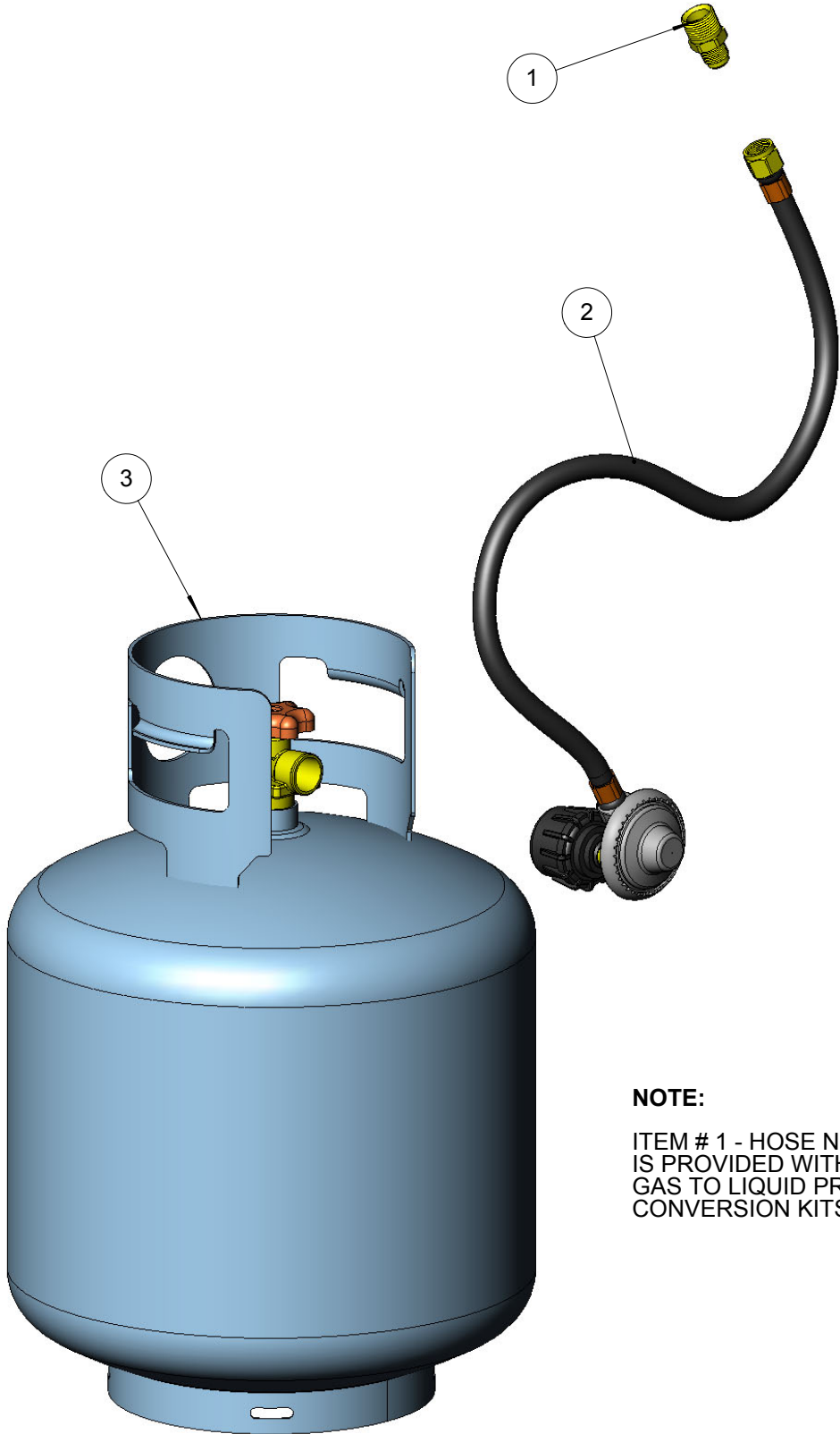
BILL OF MATERIAL - PROPANE KIT FOR BARBEQUES WITH OR W/O SIDE BURNERS			
NO.	PART NUMBER	DESCRIPTION	QTY.
1	220-0275	NIPPLE - 1/2" MPT X 3/8" MPT	1
2	220-0300	REGULATOR / HOSE KIT FOR LP GAS	1
3	NONE	PROPANE TANK - GENERIC - CUSTOMER SUPPLIED	1



NOTE:

ITEM # 1 - HOSE NIPPLE ADAPTER IS PROVIDED WITH ALL NATURAL GAS TO LIQUID PROPANE ORIFICE CONVERSION KITS.

BILL OF MATERIAL - PROPANE KIT FOR SIDE BURNERS ONLY			
NO.	PART NUMBER	DESCRIPTION	QTY.
1	220-0275	NIPPLE - 1/2" MPT X 3/8" MPT	1
2	220-0301	LP GAS - REGULATOR / HOSE KIT	1
3	NONE	PROPANE TANK - GENERIC - CUSTOMER SUPPLIED	1



NOTE:
ITEM # 1 - HOSE NIPPLE ADAPTER
IS PROVIDED WITH ALL NATURAL
GAS TO LIQUID PROPANE ORIFICE
CONVERSION KITS.